

Schreiber, David

122982

From: Davis, Minh-Tam
Sent: Thursday, May 20, 2004 12:48 PM
To: Schreiber, David
Subject: FW: Rush search request for 10/048046

A more complete request, with Room number and phone.
Sorry.
Tam

7/1999

-----Original Message-----

From: Davis, Minh-Tam
Sent: Thursday, May 20, 2004 12:46 PM
To: Schreiber, David
Subject: Rush search request for 10/048046

Please perform a ~~Score/length~~ sequence for complement of SEQ ID NO:1, residues that encode amino acids 31-103, or amino acids 303-346, or amino acids 476-641 of SEQ ID NO:2.
No specific minimum hit length is required. Maximum hit length 50
~~Score over length value of 60% or greater.~~

Thank you.
MINH TAM DAVIS
ART UNIT 1642,
ROOM 3A24, MB 3C18
272-0830

100

QY	381	AlaArgAsnLysIleThrGlnAspMetLeuGlnProIysValArgSerPheSerAsp	400
Db	1231	GCAGGAATAAATCACTCAAGACATGCTGCAGCCCAAGTCAAGCGGCTTTTCTGAT	1290
QY	401	GluGluGlySerSerGluLeuLeuLeuSerAspValAspSerGluSerSerAsp	420
Db	1291	GAAGAAGGAGTTGAGAGGACCTGCTGGAGCTGTGACAGCTTGACAGTGAAGTCTCAGAC	1350
QY	421	IleSerGlnProTyrValValCysArgGlnCysProGluTyrArgArgGlnAlaGln	440
Db	1351	ATTAGCCAGCATACGTCGTGTGCGGCACTGTCTGAGTACAGAAGGAGGCGGCGCAG	1410
QY	441	ProProHisCysProAlaProGluGlyGluProGlyAlaProGlnAlaLeuGlyAspAla	460
Db	1411	CCTCCCACTGCCAGCACCCGAGGCGAGCCAGGAGCCACAGGCGCTGGGGATGCA	1470
QY	461	ProSerThrSerValSerLeuThrThrAlaValGlnAspTyrValCysProLeuGlnGly	480
Db	1471	CCCTCCACGTCGCTCAGCCTGACGACAGCAGTCCAGGATTACGTGTGCCCTCTGCAAGGA	1530
QY	481	SerHisAlaLeuCysThrCysCysPheGlnProMetProAspArgAlaGluArgGlu	500
Db	1531	AGCCACGCCCTGTGCACCTGTCTTCCAGCCCATGCCCCACCGGAGAGCGGCGGAG	1590
QY	501	GlnAspProArgValAlaPrGlnGlnCysAlaValCysLeuGlnProPheCysHisLeu	520
Db	1591	CAGACCCCGGTGTCGCCCTCAGCAGTGTGGGTGTGCTGCGAGCCTTTCTGCCACCTG	1650
QY	521	TyrTrpGlyCysThrArgThrGlyCysGlyCysLeuAlaProPheCysGluLeuAsn	540
Db	1651	TACTGGGGCTGACCCCGACCGGCTGTACGGTGTGCTGGCCCGCTTTTGTGAGCTCAAC	1710
QY	541	LeuGlyAspLysCysLeuAspGlyValLeuAsnAsnSerTyrGluSerAspIleLeu	560
Db	1711	CTGGGTGACAGTGTCTGGACGGGTGTGCTGAACAACACAGCTACGAGTCAGACATCCTG	1770
QY	561	LysAsnTyrLeuAlaThrArgGlyLeuThrTyrLysAsnMetLeuThrGluSerLeuVal	580
Db	1771	AAGAATTACCTGGCAACAGAGGTTTGACATGGAAAAACATGTGACCGAGAGCCTCGTG	1830
QY	581	AlaLeuGlnArgGlyValPheLeuLeuSerAspTyrArgValThrGlyAspThrValLeu	600
Db	1831	GCTCTCCAGCGGGAGTGTCTGCTGTCTGATTACAGAGTCACGGGAGACACCGTTCTG	1890
QY	601	CysTyrCysGlyLeuArgSerPheArgGluLeuThrTyrGlnTyrArgGlnAsnIle	620
Db	1891	TGTTACTGCTGTGCGCTCGCAGCTTCGCTGAGCTGACCTATCAGTATCGGCAGAACATT	1950
QY	621	ProAlaSerGluLeuProValAlaValThrSerArgProAspCysTyrTrpGlyArgAsn	640
Db	1951	CCTGCTCCGAGTTGCCAGTGGCCGTAACTCCCGTCTCTGACTCTGCGGCGCGTAAC	2010
QY	641	CysArgThrGlnValLysAlaHisAlaMetLysPheAsnHisIleCysGluGlnThr	660
Db	2011	TGCCCATCTAGGTGAAGCTCACACGCCATGAATTCATCATCTGTTGACAGACA	2070
QY	661	ArgPheLysAsn	684
Db	2071	AGTTCAAAAC	2082

Search completed: May 20, 2004, 13:18:43
Job time : 5 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:10:28 ; Search time 3707.14 Seconds
(without alignments)
5822.506 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013
Perfect score: 498
Sequence: 1 tgcctctgcaggaagcca.....gctactgggcccgttaactgc 498

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 1603530

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

1: gb.ba.*
2: gb.htg.*
3: gb.in.*
4: gb.om.*
5: gb.ov.*
6: gb.pat.*
7: gb.ph.*
8: gb.pl.*
9: gb.pr.*
10: gb.ro.*
11: gb.sts.*
12: gb.sy.*
13: gb.un.*
14: gb.vi.*
15: em.ba.*
16: em.fun.*
17: em.hum.*
18: em.in.*
19: em.mu.*
20: em.on.*
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34: em.htg.pln.*
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38: em.sy.*
39: em.htgo.hum.*
40: em.htgo.mus.*
41: em.htgo.other.*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	21	4.2	30	6	I13395	I13395 Sequence 5
2	21	4.2	30	6	I13775	I13775 Sequence 5
3	21	4.2	30	6	I14876	I14876 Sequence 3
4	21	4.2	30	6	I68745	I68745 Sequence 5
5	21	4.2	30	6	I92686	I92686 Sequence 3
6	21	4.2	30	6	AR437164	AR437164 Sequence
7	20.8	4.2	50	6	AX165879	AX165879 Sequence
8	20.4	4.1	47	6	BD169427	BD169427 Genomes P
9	20.2	4.1	50	6	AR403372	AR403372 Sequence
10	20.2	4.1	50	6	BD068872	BD068872 Enzymatic
11	19.8	4.0	40	6	AX456252	AX456252 Sequence
12	19.8	4.0	42	6	AR078407	AR078407 Sequence
13	19.8	4.0	50	6	AR403397	AR403397 Sequence
14	19.6	3.9	48	6	BD068897	BD068897 Enzymatic
15	19.6	3.9	42	6	E54530	E54530 Herpesvirus
16	19.4	3.9	36	6	AR206156	AR206156 Sequence
17	19	3.8	36	6	AR206156	AR206156 Sequence
18	19	3.8	42	6	AR116992	AR116992 Sequence
19	19	3.8	44	6	AR116993	AR116993 Sequence
20	19	3.8	42	9	HUMSPARC01	M25737 Human osteo
21	18.8	3.8	50	6	I18452	I18452 Sequence 75
22	18.6	3.7	36	9	S81380	S81380 T cell anti
23	18.6	3.7	40	6	BD180755	BD180755 Array of
24	18.6	3.7	42	6	AX411814	AX411814 Sequence
25	18.6	3.7	47	6	AX004825	AX004825 Sequence
26	18.6	3.7	47	6	BD074255	BD074255 Method fo
27	18.4	3.7	36	6	BD271168	BD271168 Virus vec
28	18.4	3.7	36	6	BD271169	BD271169 Virus vec
29	18.4	3.7	36	6	AR264600	AR264600 Sequence
30	18.4	3.7	36	6	AR264601	AR264601 Sequence
31	18.4	3.7	38	6	AR057811	AR057811 Sequence
32	18.4	3.7	38	6	AR057818	AR057818 Sequence
33	18.4	3.7	38	6	AR057975	AR057975 Sequence
34	18.4	3.7	38	6	AR115569	AR115569 Sequence
35	18.4	3.7	38	6	AR115576	AR115576 Sequence
36	18.4	3.7	38	6	AR115733	AR115733 Sequence
37	18.4	3.7	38	6	AX634870	AX634870 Sequence
38	18.4	3.7	38	6	AX634877	AX634877 Sequence
39	18.4	3.7	38	6	AX635034	AX635034 Sequence
40	18.4	3.7	41	6	AX518482	AX518482 Sequence
41	18.4	3.7	45	6	AR282656	AR282656 Sequence
42	18.4	3.7	45	6	AR282657	AR282657 Sequence
43	18.4	3.7	45	6	AX370679	AX370679 Sequence
44	18.4	3.7	45	6	AX370680	AX370680 Sequence
45	18.4	3.7	47	6	AR289352	AR289352 Sequence

ALIGNMENTS

RESULT 1
I13395
LOCUS I13395 30 bp DNA linear PAT 26-JUL-1995
DEFINITION Sequence 5 from patent US 5436153.
ACCESSION I13395
VERSION I13395.1 GI:910736
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 30)
AUTHORS Sprecher,C.A., Foster,D.C. and Norris,K.E.
TITLE Human amyloid protein precursor homolog and Kunitz-type inhibitor
JOURNAL Patent: US 5436153-A 5 25-JUL-1995;
FEATURES Location/Qualifiers

Pred. No. is the number of results predicted by chance to have a

source

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/organism="unknown"

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ORIGIN

Query Match

4.2%; Score 21; DB 6; Length 30;

Best Local Similarity

82.8%; Pred. No. 1.5e+06;

Matches

24; Conservative

0; Mismatches

5; Indels

0; Gaps

0;

QY

377 GTTACTGCTGGCGCTCGCAGCTTCCGT

405

Db

1 GTTGTGCTGTGCTCGCAGCTTCCGT

29

RESULT 2

LOCUS

I13775

30 bp

DNA

linear

DEFINITION

Sequence 5 from patent US 5441931.

ACCESSION

I13775

VERSION

I13775.1

GI:996205

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unknown.

REFERENCE

1 (bases 1 to 30)

AUTHORS

Sprecher, C.A., Foster, D.C. and Norris, K.E.

TITLE

Human amyloid protein precursor homologue and Kunitz-type inhibitors

JOURNAL

Patent: US 5441931-A 5 15-AUG-1995;

FEATURES

Location/Qualifiers

source

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/organism="unknown"

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ORIGIN

Query Match

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Best Local Similarity

82.8%; Pred. No. 1.5e+06;

Matches

24; Conservative

0; Mismatches

5; Indels

0; Gaps

0;

QY

377 GTTACTGCTGGCGCTCGCAGCTTCCGT

405

Db

1 GTTGTGCTGTGCTCGCAGCTTCCGT

29

RESULT 3

LOCUS

I14876

30 bp

DNA

linear

DEFINITION

Sequence 3 from patent US 5455338.

ACCESSION

I14876

VERSION

I14876.1

GI:1249785

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unknown.

REFERENCE

1 (bases 1 to 30)

AUTHORS

Sprecher, C.A., Kisiel, W. and Foster, D.C.

TITLE

DNA encoding novel human kunitz-type inhibitors and methods relating thereto

JOURNAL

Patent: US 5455338-A 3 03-OCT-1995;

FEATURES

Location/Qualifiers

source

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ORIGIN

Query Match

4.2%; Score 21; DB 6; Length 30;

Best Local Similarity

82.8%; Pred. No. 1.5e+06;

Matches

24; Conservative

0; Mismatches

5; Indels

0; Gaps

0;

QY

377 GTTACTGCTGGCGCTCGCAGCTTCCGT

405

Db

1 GTTGTGCTGTGCTCGCAGCTTCCGT

29

RESULT 4

LOCUS

I68745

30 bp

DNA

linear

DEFINITION

Sequence 5 from patent US 5677146.

ACCESSION

I68745

VERSION

I68745.1

GI:2830867

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unknown.

REFERENCE

1 (bases 1 to 30)

AUTHORS

Sprecher, C.A., Foster, D.C. and Norris, K.E.

TITLE

Human amyloid protein precursor homologue and kunitz-type inhibitor

JOURNAL

Patent: US 5677146-A 5 14-OCT-1997;

FEATURES

Location/Qualifiers

source

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/organism="unknown"

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ORIGIN

Query Match

4.2%; Score 21; DB 6; Length 30;

Best Local Similarity

82.8%; Pred. No. 1.5e+06;

Matches

24; Conservative

0; Mismatches

5; Indels

0; Gaps

0;

QY

377 GTTACTGCTGGCGCTCGCAGCTTCCGT

405

Db

1 GTTGTGCTGTGCTCGCAGCTTCCGT

29

RESULT 5

LOCUS

I92686

30 bp

DNA

linear

DEFINITION

Sequence 3 from patent US 5728674.

ACCESSION

I92686

VERSION

I92686.1

GI:3937156

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unknown.

REFERENCE

1 (bases 1 to 30)

AUTHORS

Sprecher, C.A., Kisiel, W. and Foster, D.C.

TITLE

Inhibition of blood coagulation by human-kunitz-type inhibitors

JOURNAL

Patent: US 5728674-A 3 17-MAR-1998;

FEATURES

Location/Qualifiers

source

1. .30

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ORIGIN

Query Match

4.2%; Score 21; DB 6; Length 30;

Best Local Similarity

82.8%; Pred. No. 1.5e+06;

Matches

24; Conservative

0; Mismatches

5; Indels

0; Gaps

0;

QY

377 GTTACTGCTGGCGCTCGCAGCTTCCGT

405

Db

1 GTTGTGCTGTGCTCGCAGCTTCCGT

29

RESULT 6

LOCUS

AR437164

30 bp

DNA

linear

DEFINITION

Sequence 3 from patent US 6656746.

ACCESSION

AR437164

VERSION

AR437164.1

GI:40200261

KEYWORDS

Unknown.

SOURCE

Unknown.

ORGANISM

Unknown.

REFERENCE

1 (bases 1 to 30)

AUTHORS

Sprecher, C.A., Kisiel, W. and Foster, D.C.

TITLE

Antibodies to human kunitz-type inhibitor

JOURNAL

Patent: US 6656746-A 3 02-DEC-2003;

source

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/organism="unknown"

/mol_type="unassigned DNA"

ORIGIN

Query Match

4.2%; Score 21; DB 6; Length 30;

Best Local Similarity

82.8%; Pred. No. 1.5e+06;

Matches

24; Conservative

0; Mismatches

5; Indels

0; Gaps

0;

QY

377 GTTACTGCTGGCGCTCGCAGCTTCCGT

405

Db

1 GTTGTGCTGTGCTCGCAGCTTCCGT

29

18-FEB-1998

04-FEB-1998

18-DEC-2003

FEATURES source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
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Query Match 4.2%; Score 21; DB 6; Length 30;
Best Local Similarity 82.8%; Pred. No. 1.5e+06;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 377 GTTACTGCTGGCGCTGCGAGCTTCCT 405
Db 1 GTTGTGCTGTGCTCGCTCGAGCTTCCT 29
RESULT 7
LOCUS AX165879 50 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 1074 from Patent WO0138586.
ACCESSION AX165879
VERSION AX165879.1 GI:14546708
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Shimkets, R.A. and Leach, M.
TITLE Nucleic acids containing single nucleotide polymorphisms and methods of use thereof
JOURNAL Patent: WO 0138586-A 1074 31-MAY-2001;
Curagen Corporation (US)
FEATURES source Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 25..26
variation 26
/note="Nucleotide deleted between bases 25 and 26"
ORIGIN
Query Match 4.2%; Score 20.8; DB 6; Length 50;
Best Local Similarity 70.0%; Pred. No. 1.7e+06;
Matches 28; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 454 GTGGCGTAACATCCGCTCTGACTGCTACTGGGCGCTA 493
Db 3 GTGGCCCTACACCCAGTCTGCTGCGCGAGGCTGTA 42
RESULT 8
LOCUS BD169427 47 bp DNA linear PAT 17-JAN-2003
DEFINITION Genomes participating in rheumatoid arthritis, method of diagnosing the same, method of judging the onset risk thereof, kit for detecting and diagnosing the same, method of treating rheumatoid arthritis and remedies therefor.
ACCESSION BD169427
VERSION BD169427.1 GI:27875239
KEYWORDS WO 0234912-A/4.
SOURCE synthetic construct
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 47)
AUTHORS Shiozawa, S. and Konishi, Y.
TITLE Genomes participating in rheumatoid arthritis, method of diagnosing the same, method of judging the onset risk thereof, kit for detecting and diagnosing the same, method of treating rheumatoid arthritis and remedies therefor
JOURNAL Patent: WO 0234912-A 4 02-MAY-2002;

SHUNICHI SHIOZAWA, YOSHITAKE KONISHI
OS Artificial Sequence
PN WO 0234912-A/4
PD 02-MAY-2002
PP 24-OCT-2001 WO 2001JP009313
PR 24-OCT-2000 JP 00P 324296, 27-MAR-2001 JP 01P 090546 PR
PI SHUNICHI SHIOZAWA, YOSHITAKE KONISHI
PC C12N15/12, C07K14/47, C12Q1/68, G01N33/50, A61K38/17, A61K48/00 CC
Synthesized oligonucleotide
FH Key Location/Qualifiers
FT source 1..47
FT /organism='Artificial Sequence'.
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/organism="synthetic construct"
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ORIGIN
Query Match 4.1%; Score 20.4; DB 6; Length 47;
Best Local Similarity 65.2%; Pred. No. 2.2e+06;
Matches 30; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 27 GTGCACCTGTGTTCCAGCCCATGCGACCGGAGCGAGCGAGCGC 72
Db 2 GGTACATCCGCTTCTGCCCCAGCGCTGTTGTGGAGTGC 47
RESULT 9
LOCUS AR403372 50 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 1712 from patent US 6623962.
ACCESSION AR403372
VERSION AR403372.1 GI:40150822
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 50)
AUTHORS Akhtar, S., Fell, P. and McSwiggen, J.A.
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors
JOURNAL Patent: US 6623962-A 1712 23-SEP-2003;
FEATURES source Location/Qualifiers
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/organism="unknown"
/mol_type="genomic DNA"
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Query Match 4.1%; Score 20.2; DB 6; Length 50;
Best Local Similarity 75.8%; Pred. No. 2.4e+06;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 268 GCACACGAGGTTGACATGGAAAAACATGTTG 300
Db 1 GCACCCAGAGTTTACCAGAGAAACACACGTTG 33
RESULT 10
LOCUS BD068872 50 bp RNA linear PAT 27-AUG-2002
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors.
ACCESSION BD068872
VERSION BD068872.1 GI:22614475
KEYWORDS JP 2001511003-A/1712.
SOURCE unidentified
ORGANISM unidentified
REFERENCE 1 (bases 1 to 50)
AUTHORS Akhtar, S., Fell, P. and McSwiggen, J.A.
TITLE Enzymatic nucleic acid treatment of diseases or conditions related

JOURNAL
Patent: JP 2001511003-A 1712 07-AUG-2001;
RIBOZYME PHARMACEUTICALS INC,ASTON UNIV
COMMENT
OS Unidentified
PD JP 2001511003-A/1712
PN 07-AUG-2001
PF 14-JAN-1998 JP 1998532913
PR 31-JAN-1997 US 607036476,04-DEC-1997 US 08/985162 PI
SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC
C12N9/00,C07K14/71
CC Strandedness: Single;
CC Topology: Linear;
CC Enzymatic nucleic acid treatment of diseases or conditions CC related to
CC levels of epidermal growth factor receptors
FH Key Location/Qualifiers
FT source 1..50
FT /organism='Unidentified'.
FEATURES
source Location/Qualifiers
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/mol_type='genomic RNA'
/db_xref='taxon:32644'
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Query Match 4.1%; Score 20.2; DB 6; Length 50;
Best Local Similarity 75.8%; Pred. No. 2.4e+06;
Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 268 GCACACGAGGTTTCACATGGAACATGTTG 300
|||||
Db 1 GCACCCAGAGTTTACACAGAGAACACACGTTG 33
RESULT 11
AX456252/c
LOCUS
DEFINITION Sequence 110 from Patent WO0216944.
ACCESSION AX456252
VERSION AX456252.1 GI:21715166
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.
REFERENCE
AUTHORS Wood,K.V., Wood,M.G., Zhuang,Y. and Paguio,A.
TITLE Synthetic nucleic acid molecule compositions and methods of preparation
JOURNAL Patent: WO 0216944-A 110 28-FEB-2002;
PROMEGA CORPORATION (US)
FEATURES
source Location/Qualifiers
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/organism='synthetic construct'
/mol_type='unassigned DNA'
/db_xref='taxon:32630'
/note='An oligonucleotide'
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Best Local Similarity 69.2%; Pred. No. 3e+06;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 372 TCTGTGTTACTGCTGGCGCTCGGAGCTTCGCTGAGCT 410
Db 39 TTTGTTGACAGTATGATCTGACGAGCTTGGCTGAGCT 1
RESULT 12
AR078407
LOCUS
DEFINITION Sequence 26 from patent US 5962636.
ACCESSION AR078407
VERSION AR078407.1 GI:10005153

KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 42)
AUTHORS Bachmaier,K., Hessel,A.John., Neu,N. and Penninger,J.Martin.
TITLE Peptides capable of modulating inflammatory heart disease
JOURNAL Patent: US 5962636-A 26 05-OCT-1999;
FEATURES Location/Qualifiers
source 1..42
/organism='unknown'
/mol_type='unassigned DNA'
ORIGIN
Query Match 4.0%; Score 19.8; DB 6; Length 42;
Best Local Similarity 77.4%; Pred. No. 3e+06;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
QY 115 CTGCACCTTTCTGCCACCTGTACTGGGCT 145
|||||
Db 12 CAGCACCTGTTTGCACACTATGCTGGGCT 42
RESULT 13
AR403397
LOCUS
DEFINITION Sequence 1737 from patent US 6623962.
ACCESSION AR403397
VERSION AR403397.1 GI:40150847
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 50)
AUTHORS Akhtar,S., Fell,P. and McSwiggen,J.A.
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors
JOURNAL Patent: US 6623962-A 1737 23-SEP-2003;
FEATURES Location/Qualifiers
source 1..50
/organism='unknown'
/mol_type='genomic DNA'
ORIGIN
Query Match 4.0%; Score 19.8; DB 6; Length 50;
Best Local Similarity 63.8%; Pred. No. 3e+06;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 224 TGAACACACAGCTACGAGTCAGACATCTCTGAGATTACCTGGCA 270
|||||
Db 4 TGAAGAAGAACACACAGAGAACACACAGCTTGTGTACATTACCTGTA 50
RESULT 14
BD068897
LOCUS
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors.
ACCESSION BD068897
VERSION BD068897.1 GI:22614500
KEYWORDS JP 2001511003-A/1737.
SOURCE unidentified
ORGANISM unidentified
unclassified.
REFERENCE 1 (bases 1 to 50)
AUTHORS Akhtar,S., Fell,P. and Mcswiggen,J.A.
TITLE Enzymatic nucleic acid treatment of diseases or conditions related to levels of epidermal growth factor receptors
JOURNAL Patent: JP 2001511003-A 1737 07-AUG-2001;
RIBOZYME PHARMACEUTICALS INC,ASTON UNIV
COMMENT OS Unidentified
PN JP 2001511003-A/1737
PD 07-AUG-2001

PF 14-JAN-1998 JP 1998532913
PR 31-JAN-1997 US 60/036476,04-DEC-1997 US 09/985162 PI
SAGHIR AKHTAR,PATRICIA FELL,JAMES A MCSWIGGEN PC
C12N9/00,C07K14/71
CC Strandedness: Single;
CC Topology: Linear;
CC Enzymatic nucleic acid treatment of diseases or conditions CC
related to
CC levels of epidermal growth factor receptors
FH Key Location/Qualifiers
FT source 1..50
/organism='Unidentified'.
/organism='Unidentified'
/mol_type='genomic RNA'
/db_xref='taxon:32644'
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FEATURES
source
1..50
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/organism='Unidentified'.
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/mol_type='genomic RNA'
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Best Local Similarity 63.8%; Pred. No. 3e+06;
Matches 30; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 224 TGACAAACAGCTACGATCGACATCCCTGAAGAATTACCTGGCA 270
|||||
DB 4 TGAGAGAGACACACAGAGAACACACACGTTGTGTACATTACCTGGTA 50
|||||

RESULT 15
AR277861/c
LOCUS AR277861 48 bp DNA linear PAT 10-APR-2003
DEFINITION Sequence 20 from patent US 6511803.
ACCESSION AR277861
VERSION AR277861.1 GI:29711785
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
Unclassified.
REFERENCE 1 (bases 1 to 48)
AUTHORS Church,G.M. and Mitra,R.D.
TITLE Replica amplification of nucleic acid arrays
JOURNAL Patent: US 6511803-A 20 28-JAN-2003;
FEATURES
source 1..48
/organism='unknown'
/mol_type='genomic DNA'

ORIGIN
Query Match 3.9%; Score 19.6; DB 6; Length 48;
Best Local Similarity 73.5%; Pred. No. 3.4e+06;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 36 CTGCTTCAGCCCATGCCCGACCGGAGAGCGGAG 69
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DB 43 CTCCTTCAGCTTCGCCCGGAGGAGGAGCGGAG 10
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Search completed: May 26, 2004, 07:39:20
Job time : 3709.14 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:01:38 ; Search time 420.572 Seconds
(without alignments)
5030.293 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013

Perfect score: 498

Sequence: 1 tgcctctgcgaaggaagcca.....gctactggggccgtaactgc 498

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 3185356

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
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Listing first 45 summaries

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7: Geneseqn2003as:*
8: Geneseqn2003bs:*
9: Geneseqn2003cs:*
10: Geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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C 2	21.2	4.3	50	2	AAV04790 Primer 95
C 3	21.2	4.3	50	2	AAV31045 Expressio
4	21	4.2	30	2	AAQ66249 Sequence
5	21	4.2	30	2	AAQ90470 Human Kun
6	21	4.2	50	4	AAJ32458 Human SNP
7	21	4.2	50	4	AAJ32043 Human SNP
C 8	20.8	4.2	41	6	ABV74248 Human mac
9	20.8	4.2	48	7	ACC62681 Human ant
10	20.8	4.2	48	7	ACC62643 Human ant
11	20.8	4.2	50	5	ABL01083 Human SNP
12	20.4	4.1	47	6	AAJ47188 Human rbe
13	20.2	4.1	50	2	AAV98932 Human EGF
C 14	20	4.0	50	6	ABZ00921 Human leu
C 15	19.8	4.0	40	6	ABJ99142 Green/red
16	19.8	4.0	42	2	AAZ28188 Human bet
17	19.8	4.0	42	3	AAZ99171 Human Dep
18	19.8	4.0	50	2	AAV98957 Human RGP
C 19	19.8	4.0	50	4	AAJ34581 Human SNP
C 20	19.8	4.0	50	4	AAJ34023 Human SNP
C 21	19.6	3.9	41	6	ABA05129 Human syn
C 22	19.6	3.9	48	3	AAZ99461 Primer Pu
C 23	19.6	3.9	48	4	AAJ12549 PCR prime

24 19.6 3.9 50 6 ABZ07831 Human leu
C 25 19.2 3.9 41 6 ABV74249 Human mac
26 19.2 3.9 50 4 AAL28785 Human SNP
C 27 19.2 3.9 50 4 AAL34331 Human SNP
C 28 19.2 3.9 50 4 AAL34262 Human SNP
29 19 3.8 50 4 AAL34327 Human SNP
30 18.8 3.8 41 6 ABL55510 Human pal
31 18.8 3.8 48 7 ACC62644 Human ant
32 18.8 3.8 48 7 ACC62693 Human ant
33 18.8 3.8 48 7 ACC62655 Human ant
34 18.8 3.8 48 7 ACC62682 Human ant
35 18.6 3.7 42 6 AAD39247 pd10-QWV-
C 36 18.6 3.7 44 2 AAQ51167 DNA fragm
C 37 18.6 3.7 47 2 AAX56654 Primer 27
38 18.6 3.7 50 6 ABX03168 HCV hairp
39 18.6 3.7 50 6 ABX03263 HCV hairp
40 18.6 3.7 50 6 ABZ02873 Human leu
41 18.4 3.7 36 3 AAD00854 Primer #1
C 42 18.4 3.7 36 3 AAD00855 Primer #2
C 43 18.4 3.7 38 2 AAT53816 Rat ICAM
C 44 18.4 3.7 38 2 AAT53973 Rat ICAM
C 45 18.4 3.7 38 2 AAT53809 Rat ICAM

ALIGNMENTS

RESULT 1
AAX06374/c
ID AAX06374 standard; DNA; 31 BP.

AC AAX06374;

DT 31-MAR-1999 (first entry)

DE Human biallelic polymorphic DNA fragment SGC33319.

KW Polymorphism; biallelic; paternity testing; forensic; genetic mapping;
phenotypic typing; medicament; disease; marker; human; ss.

OS Homo sapiens.

FN WO9858529-A2.

PD 30-DEC-1998.

PF 22-JUN-1998; 98WO-US012930.

PR 24-JUN-1997; 97US-0050594P.

XX (AFFY-) AFFYMETRIX INC.

XX Lipshutz RJ, Chee M, Fan J, Berno A;

XX WPI; 1999-080963/07.

PT New nucleic acid segments containing polymorphic sites - used for, e.g.
detecting a disease phenotype, in forensics, paternity testing or genetic
mapping of phenotypic traits.

XX Claim 1; Page 23; 61pp; English.

CC Sequences AAX06101-X06558 represent human DNA fragments which contain
biallelic polymorphic markers. The base occupying the polymorphic site is
indicated by the appropriate IUPAC-IUB ambiguity code. These fragments
can be used in a method for determining polymorphic forms in an
individual. The invention further provides computer-readable storage
medium for storing data for access by an application programme being
executed on a data processing system. Such a method comprises a data
structure stored in the computer-readable storage medium, the data
structure including information resident in a database used by the
application programme and including records, each record comprising
information identifying a polymorphism shown in the above sequences. The

CC products and methods can be used for analysing polymorphic sites in
 CC individuals for testing for the presence of a disease phenotype or in
 CC forensics, paternity testing or genetic mapping of phenotypic traits.
 CC They can also be used for the production of polypeptides expressed by
 CC variant genes and for the production of transgenic animals. The nucleic
 CC acid segments can also be used in the manufacture of medicaments for the
 CC treatment or prophylaxis of diseases

SQ Sequence 31 BP; 5 A; 8 C; 8 G; 9 T; 0 U; 1 Other;
 Query Match 4.3%; Score 21.6; DB 2; Length 31;
 Best Local Similarity 80.0%; Pred. No. 2.5e+04;
 Matches 24; Conservative 1; Mismatches 5; Indels 0; Gaps 0;

QY 230 ACAACAGCTACGAGTCAGACATCTCTGAAGA 259
 DB 30 ACATCAGCTACGAGTCTGGAATCTCTGGAGA 1

RESULT 2
 AAV04790/c
 ID AAV04790 standard; cDNA; 50 BP.
 AC AAV04790;
 XX
 DT 10-JUN-1998 (first entry)
 XX
 DE Primer 95-1414 for green fluorescent protein.
 XX
 KW PCR primer; green fluorescent protein; GFP; recombinant fungal host cell;
 KW cryptic splice site; hormone production; enzyme production;
 KW receptor production; reporter production; ss.
 XX
 OS Synthetic.
 OS Aequorea victoria.
 XX
 PN WO9749821-A1.
 XX
 PD 31-DEC-1997.
 XX
 PF 20-JUN-1997; 97WO-US010630.
 XX
 PR 27-JUN-1996; 96US-0020930P.
 XX
 PA (NOVO) NOVO NORDISK BIOTECH INC.
 XX
 PI Thompson SA;
 XX
 DR WPI; 1998-077184/07.

CC Recombinant heterologous polypeptide expression in fungal host cells -
 PT comprises modifying at least 1 cryptic splice site in nucleic acid
 PT sequence encoding heterologous polypeptide, to provide correct
 PT expression.

XX
 PS Example 1; Page 22; 59pp; English.

CC This sequence represents a primer used in the construction of a vector
 CC containing the Aequorea victoria green fluorescent protein (GFP). The
 CC vector can be used in the method of the invention for obtaining a novel
 CC recombinant fungal host cell (FHC), which comprises introducing a nucleic
 CC acid sequence (NAS) encoding a heterologous polypeptide, where at least 1
 CC cryptic splice site (CSS) is modified, into a FHC. The products can be
 CC used for the recombinant production of hormones, enzymes (e.g.
 CC aminopeptidases, amylases, carbohydrases, carboxypeptidases, catalases,
 CC cellulases, chitinases, cutinases, deoxyribonucleases, esterases, alpha-
 CC galactosidases, beta-galactosidases, glucosylases, alpha-glucosidases,
 CC beta-glucosidases, haloperoxidases, invertases, lactases, lipases,
 CC mannosidases, mutanases, oxidases, pectinolytic enzymes, peroxidases,
 CC phytases, polyphenoloxidases, proteolytic enzymes, ribonucleases or
 CC xylanases), receptors or reporters (e.g. Aequorea victoria GFP). The CSS
 CC modification prevents improper splicing of precursor mRNA for
 CC heterologous expression by FHC, therefore preventing the production of

CC biologically inactive polypeptides, or the production of several
 CC populations of polypeptide products with varying biological activity

SQ Sequence 50 BP; 8 A; 13 C; 18 G; 11 T; 0 U; 0 Other;
 Query Match 4.3%; Score 21.2; DB 2; Length 50;
 Best Local Similarity 69.0%; Pred. No. 3.8e+04;
 Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 396 CAGCTTCCGTCGAGTCAGCTATCAGTATCGGCAGAACATTCC 437
 DB 50 CGGCAGGTCAGCTCGCGACCATTTATCAGCAGAACACTCC 9

RESULT 3
 AAV31045/c
 ID AAV31045 standard; cDNA; 50 BP.
 XX
 AC AAV31045;
 XX
 DT 17-AUG-1998 (first entry)
 XX
 DE Expression vector pShTh49 construction primer 95-1414.
 XX
 KW Fungal host cell; cryptic splice site; filamentous fungus; primer;
 KW splicing; biologically active; construction; expression vector; ss.
 XX
 OS Synthetic.
 OS Aequorea victoria.
 XX
 PN US5770371-A.
 XX
 PD 23-JUN-1998.
 XX
 PF 27-JUN-1996; 96US-00672158.
 XX
 PR 27-JUN-1996; 96US-00672158.
 XX
 PA (NOVO) NOVO NORDISK BIOTECH INC.
 XX
 PI Thompson S;
 XX
 DR WPI; 1998-376791/32.

CC DNA for transforming filamentous fungi - with cryptic splice sites
 PT modified to prevent incorrect splicing in fungi.

XX
 PS Example 1; Col 14; 27pp; English.

CC The present sequence represents a primer used in the construction of the
 CC expression vector pShTh49 in an example from the present invention. The
 CC present invention describes a nucleic acid sequence with at least one
 CC modified cryptic splice site, where the nucleic acid sequence encodes a
 CC biologically active polypeptide and the cryptic splice site is modified
 CC by (a) replacing at least one cryptic consensus sequence with a non-
 CC consensus sequence; and/or (b) replacing a first region of a cryptic
 CC intron with a second region that has a G+C content of 40-70%. The fungal
 CC host cells may be used to produce biologically active polypeptides,
 CC preferably hormones, enzymes, receptors or reporters. Problems of
 CC incorrect splicing of precursor mRNA in filamentous fungal cells can be
 CC overcome

SQ Sequence 50 BP; 8 A; 13 C; 18 G; 11 T; 0 U; 0 Other;
 Query Match 4.3%; Score 21.2; DB 2; Length 50;
 Best Local Similarity 69.0%; Pred. No. 3.8e+04;
 Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 396 CAGCTTCCGTCGAGTCAGCTATCAGTATCGGCAGAACATTCC 437
 DB 50 CGGCAGGTCAGCTCGCGACCATTTATCAGCAGAACACTCC 9

PI Shimkets RA, Leach M;
XX WPI; 2001-465210/50.
XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.
XX Claim 1; Page 3019; 4143pp; English.
PS
XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins, G-
CC protein coupled receptors and thioesterases. The present sequence is one
CC such oligonucleotide. The oligonucleotides and the peptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of the proteins listed above.
CC Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms
XX
SQ Sequence 50 BP; 12 A; 17 C; 10 G; 11 T; 0 U; 0 Other;
Query Match 4.2%; Score 21; DB 4; Length 50;
Best Local Similarity 73.0%; Pred. No. 4.3e+04;
Matches 27; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 125 TCTGCCACTGTACTGGGGCTGACCCGGACGGGTG 161
DB 13 TCTGCCACTGTACTGGGGCTGACCCGGACGGGTG 49
RESULT 7
AAL32043
ID AAL32043 standard; DNA; 50 BP.
XX
AC AAL32043;
XX
DT 24-JAN-2002 (first entry)
XX
DE Human SNP oligonucleotide #5251.
XX
KW Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; gene therapy; vaccine; amylase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinase; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.
XX
OS Homo sapiens.
XX
PN WO200147944-A2.
XX
PD 05-JUL-2001.
XX
PF 28-DEC-2000; 2000WO-US035498.
XX
PR 28-DEC-1999; 99US-0173419P.
PR 27-DEC-2000; 2000US-00173419.
XX
XX (CURA-) CURAGEN CORP.
PA
XX Shimkets RA, Leach M;
XX WPI; 2001-465210/50.
DR

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.
XX Claim 1; Page 2898; 4143pp; English.
PS
XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinases, cytokines, interferons, interleukins, G-
CC protein coupled receptors and thioesterases. The present sequence is one
CC such oligonucleotide. The oligonucleotides and the peptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of the proteins listed above.
CC Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms
XX
SQ Sequence 50 BP; 8 A; 15 C; 17 G; 10 T; 0 U; 0 Other;
Query Match 4.2%; Score 21; DB 4; Length 50;
Best Local Similarity 82.8%; Pred. No. 4.3e+04;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 24 CCTGTGACCTGCTGCTTCCAGCCCATGC 52
DB 11 CATGGCACCTGCTGCTTCTAGCCACTGC 39
RESULT 8
ABV74248/C
ID ABV74248 standard; DNA; 41 BP.
XX
AC ABV74248;
XX
DT 02-JAN-2003 (first entry)
XX
DE Human macro protein 0986-9.24 probe SEQ ID NO 8.
XX
KW Human; macro protein 0986-9.24; tumour; haemopathy; development disorder;
KW human immunodeficiency virus; HIV; infection immunological disease;
KW inflammation; probe; ss.
XX
OS Homo sapiens.
XX
PN CN1352149-A.
XX
PD 05-JUN-2002.
XX
PF 10-NOV-2000; 2000CN-00127337.
XX
PR 10-NOV-2000; 2000CN-00127337.
XX
PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX
PI Mao Y, Xie Y;
XX
XX WPI; 2002-699451/76.
XX
XX New polypeptide-human macro protein 0986-9.24 and polynucleotide for
PT encoding such polypeptide.
XX
XX Example 6; Page 19 (Disclosure); 32pp; Chinese.
XX
XX The invention relates to human macro protein 0986-9.24, polynucleotides
CC encoding this polypeptide and DNA recombinant processes to produce the
CC polypeptide. The present invention also discloses applying the

[illegible]

OS Synthetic.
OS Homo sapiens.
XX WO9833893-A2.
XX 06-AUG-1998.
XX 14-JAN-1998; 98WO-US000730.
XX 31-JAN-1997; 97US-0036476P.
XX 04-DEC-1997; 97US-00985162.
XX (RIBO-) RIBOZYME PHARM INC.
XX (OYAS-) UNIV ASTON.
XX Akhtar S, Fell P, Mcswiggen JA;
XX WPI; 1998-437449/37.
XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal
PT growth factor receptor, useful for inhibiting cell proliferation and for
PT treating cancers.
XX Claim 7; Page 88; 109pp; English.
XX The present invention describes enzymatic nucleic acid molecules (NAMs)
CC which specifically cleave RNA derived from an epidermal growth factor
CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090
CC represent specifically claimed target sequence from human EGF-R. AAV98044
CC to AAV98866 and AAV98867 to V9878 represent hammetthead ribozymes and
CC hairpin ribozymes respectively for human EGF-R. The NAMs are useful for
CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR
CC expression levels e.g. to inhibit cell proliferation in the prevention or
CC treatment of cancers. The NAMs can also be used as diagnostic tools to
CC examine genetic drift and mutations within diseased cells or to detect
CC the presence of EGF-R RNA in a cell
XX
XX Sequence 50 BP; 16 A; 12 C; 11 G; 0 T; 11 U; 0 Other;
Query Match 4.1%; Score 20.2; DB 2; Length 50;
Best Local Similarity 60.6%; Pred. No. 7.1e+04;
Matches 20; Conservative 5; Mismatches 8; Indels 0; Gaps 0;
QY 268 GCAACGAGAGTTTCACATGGAAACATGTTG 300
DB 1 GCACCGAAGUUUACCGAGAGAACACACGUG 33
RESULT 14
ABZ00921/c
ID ABZ00921 standard; DNA; 50 BP.
XX AC ABZ00921;
XX 09-JAN-2003 (first entry)
DE Human leukocyte gene expression profiling probe SEQ ID NO 912.
XX T7; leukocyte; gene expression profiling; allograft rejection;
KW atherosclerosis; congestive heart failure; systemic lupus erythematosus;
KW rheumatoid arthritis; osteoarthritis; cytomegalovirus; infection; probe;
XX ss.
XX Homo sapiens.
XX WO200257414-A2.
XX 25-JUL-2002.
XX 22-OCT-2001; 2001WO-US047856.
XX 20-OCT-2000; 2000US-0241994P.
XX 08-JUN-2001; 2001US-0296764P.

XX (BIOC-) BIOCARDIA INC.
XX Wohlgenuth J, Fry K, Matcuk G, Altman P, Prentice J, Phillips J;
PI Ly N, Woodward R, Quertermous T, Johnson F;
XX WPI; 2002-636525/68.
XX New system for leukocyte expression profiling, diagnosing a disease, or
PT monitoring (the rate of) progression of a disease, e.g. atherosclerosis
PT or congestive heart failure, comprises diagnostic oligonucleotides.
XX Claim 1; Page 353; Opp; English.
XX The invention relates to a system for detecting gene expression, which
CC comprises one or two isolated DNA molecules that detect expression of a
CC gene, where the gene corresponds to any of 8143 oligonucleotides
CC (ABZ00010-ABZ08152) each having 50 base pairs (bp). The system is useful
CC for leukocyte expression profiling. It is particularly useful for
CC diagnosing a disease, monitoring (rate of) progression of a disease,
CC predicting therapeutic outcome, determining prognosis for a patient,
CC predicting disease complications in an individual or monitoring response
CC to treatment in an individual. The diseases include cardiac allograft
CC rejection, kidney allograft rejection, liver allograft rejection,
CC atherosclerosis, congestive heart failure, systemic lupus erythematosus,
CC rheumatoid arthritis, osteoarthritis or cytomegalovirus infection
XX
XX Sequence 50 BP; 11 A; 16 C; 7 G; 16 T; 0 U; 0 Other;
Query Match 4.0%; Score 20; DB 6; Length 50;
Best Local Similarity 72.3%; Pred. No. 8.1e+04;
Matches 26; Conservative 0; Mismatches 10; Indels 0; Gaps 0;
QY 198 GGGTGACAAATGCTGTGGACGGCGTGTGTAACAA 233
DB 41 GGGGCGAAGTGTGTGGATGACCTGCCAACAAATA 6
RESULT 15
ABL99142/c
ID ABL99142 standard; DNA; 40 BP.
XX AC ABL99142;
XX 28-JUN-2002 (first entry)
DE Green/red click beetle luciferase preparing oligo SEQ ID NO:110.
XX Luciferase; synthetic nucleic acid; transcriptional characteristic;
KW transcription; codon usage; PCR; primer; ss.
XX Coleoptera.
XX Synthetic.
XX WO200216944-A2.
XX 28-FEB-2002.
XX 24-AUG-2001; 2001WO-US026566.
XX 24-AUG-2000; 2000US-00645706.
XX (PROM-) PROMEGA CORP.
XX Wood KV, Wood MG, Zhuang Y, Paguio A;
XX WPI; 2002-304140/34.
XX Preparing a synthetic nucleic acid molecule with reduced inappropriate
PT transcriptional characteristics when expressed in a cell, for e.g making
PT fusion proteins, by altering a wild type or another synthetic nucleic
PT acid sequence.
XX

PS Example 1; Fig 6; 294pp; English.
XX
CC The present invention relates to the preparation of synthetic nucleic
CC acid molecules which have altered transcriptional regulatory sequences
CC compared to the wild-type. These sequences are then transcribed with less
CC frequency compared to the wild-type. In particular, the invention relates
CC to altered luciferase sequences. This can be used to detect weak promoter
CC activity, to express fusion proteins, to detect and/or measure levels of
CC gene expression, subcellular localisation or targeting, in life science
CC research, agrogenetics, gene therapy, developmental science and
CC pharmaceutical development. The present sequence is an oligonucleotide
CC described in the exemplification of the invention
XX
SQ Sequence 40 BP; 13 A; 12 C; 7 G; 8 T; 0 U; 0 Other;

Query Match 4.0%; Score 19.8; DB 6; Length 40;
Best Local Similarity 69.2%; Pred. No. 8.5e-04;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

Qy 372 TCTGTGTTACTGCTGCGCTGCGAGCTTCGGTGAGCT 410
Db 39 TTGGTTGACAAAGTATGATCTGAGCAGCTTGGTGAGCT 1

Search completed: May 26, 2004, 05:53:55
Job time : 429.572 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:16:49 ; Search time 96.1979 Seconds
(without alignments)
2872.886 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013

Perfect score: 498
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Scoring table: IDENTITY NUC

Gapop 10_0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 839752

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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4: /cgn2_6/prodata/2/ina/6B_COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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5	21	4.2	30	1	US-08-424-022-5
6	21	4.2	30	1	US-08-458-090-3
7	21	4.2	30	2	US-08-457-887-3
8	21	4.2	30	2	US-08-424-017B-5
9	21	4.2	30	4	US-09-904-621-3
10	21	4.2	30	5	PCT-US93-11696-5
11	20.2	4.1	50	3	US-08-985-162-1712
12	20.2	4.1	50	4	US-09-401-063-1712
13	19.8	4.0	42	2	US-09-133-774-26
14	19.8	4.0	42	3	US-09-303-862-26
15	19.8	4.0	50	3	US-08-985-162-1737
16	19.8	4.0	50	4	US-09-401-063-1737
17	19.6	3.9	48	4	US-09-522-732B-20
18	19	3.8	36	4	US-08-327-874A-26
19	19	3.8	36	5	PCT-US94-09700-26
20	19	3.8	42	3	US-08-448-613-4
21	19	3.8	42	3	US-08-448-619-5
22	18.8	3.8	50	1	US-07-972-032-75
23	18.4	3.7	36	4	US-09-438-268-25
24	18.4	3.7	36	4	US-09-438-268-26
C 25	18.4	3.7	38	2	US-08-292-620A-2015
C 26	18.4	3.7	38	2	US-08-292-620A-2022
C 27	18.4	3.7	38	2	US-08-292-620A-2179

C 28	18.4	3.7	38	3	US-09-071-845-2015	Sequence 2015, Ap
C 29	18.4	3.7	38	3	US-09-071-845-2022	Sequence 2022, Ap
C 30	18.4	3.7	38	3	US-09-071-845-2179	Sequence 2179, Ap
C 31	18.4	3.7	45	4	US-09-765-873A-29	Sequence 29, Appl
C 32	18.4	3.7	45	4	US-09-765-873A-30	Sequence 30, Appl
C 33	18.4	3.7	47	4	US-09-422-878-1087	Sequence 1087, Ap
C 34	18.4	3.7	48	4	US-09-502-558-21	Sequence 21, Appl
C 35	18.4	3.7	48	4	US-09-502-558-22	Sequence 22, Appl
C 36	18.2	3.7	46	3	US-09-372-934-14	Sequence 14, Appl
C 37	18.2	3.7	46	3	US-09-372-934-25	Sequence 25, Appl
C 38	18.2	3.7	46	4	US-09-486-241-18	Sequence 18, Appl
C 39	18.2	3.7	46	4	US-09-766-916-14	Sequence 14, Appl
C 40	18.2	3.7	46	4	US-09-766-916-25	Sequence 25, Appl
C 41	18.2	3.7	46	4	US-09-766-898-14	Sequence 14, Appl
C 42	18.2	3.7	46	4	US-09-766-898-25	Sequence 25, Appl
C 43	18.2	3.7	46	4	US-09-637-040C-14	Sequence 14, Appl
C 44	18.2	3.7	46	4	US-09-637-040C-25	Sequence 25, Appl
C 45	18.2	3.7	50	3	US-08-998-099-283	Sequence 283, App

ALIGNMENTS

RESULT 1
US-08-672-158A-10/c
; Sequence 10, Application US/08672158A
; Patent No. 5770371
; GENERAL INFORMATION:
; APPLICANT: Sheryl Thompson
; TITLE OF INVENTION: Modification of Cryptic Splice Sites In
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: No. 57703710 No. 5770371disk of No. 5770371th America, Inc.
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174-6401
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/672,158A
; FILING DATE: 27-JUN-1996
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Agis Dr., Cheryl H.
; REGISTRATION NUMBER: 34,086
; REFERENCE/DOCKET NUMBER: 4855.000-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-867-0123
; TELEFAX: 212-878-9655
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 50 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-672-158A-10

Query Match 4.3%; Score 21.2; DB 1; Length 50;
Best Local Similarity 69.0%; Pred. No. 4.9e+03;
Matches 29; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qv 396 CAGCTTCGCTGACTGACCTATCAGTATCGGAGAACATTC 437
Db 50 CGGAGCGTTCAGCTCGCCGACCATTTATCAGGAGAACATTC 9

RESULT 2

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US-07-985-692-5
; Sequence 5, Application US/07985692
; Patent No. 5436153
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A
; APPLICANT: Foster, Donald C
; APPLICANT: No. 5436153, KJeld
; TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
; TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 4225 Roosevelt Way, N.E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/985,692
; FILING DATE: 19921202
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, Gary E
; REGISTRATION NUMBER: 31-684
; REFERENCE/DOCKET NUMBER: 92-21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-547-8080 ext 322
; TELEFAX: 206-548-2329
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: ZC4792
;
US-07-985-692-5
Query Match 4.2%; Score 21; DB 1; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGCTGCGCTGCGAGCTTCGGT 405
||| ||||| ||||| ||||| |||||
Db 1 GTTGTGCTGTTGCTCGCGAGCTTCGGT 29

RESULT 3
US-08-155-331-5
; Sequence 5, Application US/08155331
; Patent No. 5441931
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy
; APPLICANT: Foster, Donald C
; APPLICANT: No. 5441931, KJeld
; TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
; TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 4225 Roosevelt Way, N.E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/147,710
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, Gary E
; REGISTRATION NUMBER: 31-684
; REFERENCE/DOCKET NUMBER: 93-14
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-547-8080 ext 322
; TELEFAX: 206-548-2329
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid

US-07-985-692-5
Query Match 4.2%; Score 21; DB 1; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGCTGCGCTGCGAGCTTCGGT 405
||| ||||| ||||| ||||| |||||
Db 1 GTTGTGCTGTTGCTCGCGAGCTTCGGT 29

RESULT 4
US-08-147-710-3
; Sequence 3, Application US/08147710
; Patent No. 5455338
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kiesel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS AND
; TITLE OF INVENTION: METHODS RELATING THERETO
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 4225 Roosevelt Way, N.E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/147,710
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, Gary E
; REGISTRATION NUMBER: 31-684
; REFERENCE/DOCKET NUMBER: 93-14
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-547-8080 ext 322
; TELEFAX: 206-548-2329
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
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; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: ZC4792
US-08-147-710-3

Query Match      4.2%; Score 21; DB 1; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGTGGCTGCGCAGCTTCGGT 405
DB 1 GTTGTGCTGTGCTCCGCGAGCTTCGGT 29

RESULT 5
US-08-424-022-5
; Sequence 5, Application US/08424022
; Patent No. 5677146
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy
; APPLICANT: Foster, Donald C
; APPLICANT: No. 5677146ris, Kjel
; TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
; TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 4225 Roosevelt Way, N.E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/424,022
; FILING DATE:
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/985,692
; FILING DATE: 02-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, Gary E
; REGISTRATION NUMBER: 31-684
; REFERENCE/DOCKET NUMBER: 92-21C2
; TELEPHONE: 206-547-8080 ext 322
; TELEFAX: 206-548-2329
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: ZC4792
US-08-424-022-5

Query Match      4.2%; Score 21; DB 1; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGTGGCTGCGCAGCTTCGGT 405
DB 1 GTTGTGCTGTGCTCCGCGAGCTTCGGT 29

RESULT 6
US-08-458-090-3

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; Sequence 3, Application US/08458090
; Patent No. 5728674
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kisiel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS AND
; TITLE OF INVENTION: METHODS RELATING THERETO
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/458,090
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, Gary E
; REGISTRATION NUMBER: 31-648
; REFERENCE/DOCKET NUMBER: 93-14D2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-442-6673
; TELEFAX: 206-442-6678
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; CLONE: ZC4792
US-08-458-090-3

Query Match      4.2%; Score 21; DB 1; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGTGGCTGCGCAGCTTCGGT 405
DB 1 GTTGTGCTGTGCTCCGCGAGCTTCGGT 29

RESULT 7
US-08-457-887-3
; Sequence 3, Application US/08457887
; Patent No. 5914315
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kisiel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS AND
; TITLE OF INVENTION: METHODS RELATING THERETO
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 1201 Eastlake Avenue East
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/457,887
;; FILING DATE:
;; CLASSIFICATION: 536
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Parker, Gary E
;; REGISTRATION NUMBER: 31-648
;; REFERENCE/DOCKET NUMBER: 93-14D1
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 206-442-6673
;; TELEFAX: 206-442-6678
;; INFORMATION FOR SEQ ID NO: 3:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 30 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; CLONE: ZC4792
US-08-457-887-3

Query Match 4.2%; Score 21; DB 2; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGGCGCTCGCAGCTTCGGT 405
DB 1 GTTGTGCTGTGCTCGCAGCTTCGGT 29

RESULT 8
US-08-424-017B-5
; Sequence 5, Application US/08424017B
; Patent No. 5935854
; GENERAL INFORMATION:
; APPLICANT: Foster, Donald C
; APPLICANT: Sprecher, Cindy
; APPLICANT: Norris, Kjeld
; TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
; TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 4225 Roosevelt Way, N.E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/155,331
; FILING DATE:
; APPLICATION NUMBER: US 07/985,692
; FILING DATE: 02-DEC-1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Parker, Gary E
; REGISTRATION NUMBER: 31-684
; REFERENCE/DOCKET NUMBER: 92-21C1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 206-547-8080 ext 322
; TELEFAX: 206-548-2329
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 base pairs

;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; IMMEDIATE SOURCE:
;; CLONE: ZC4792
US-08-424-017B-5

Query Match 4.2%; Score 21; DB 2; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGGCGCTCGCAGCTTCGGT 405
DB 1 GTTGTGCTGTGCTCGCAGCTTCGGT 29

RESULT 9
US-09-904-621-3
; Sequence 3, Application US/09904621
; Patent No. 6656746
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kisiel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS
; TITLE OF INVENTION: AND
; TITLE OF INVENTION: METHODS RELATING THERETO
; FILE REFERENCE: 93-14D3
; CURRENT APPLICATION NUMBER: US/09/904,621
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide ZC4792
US-09-904-621-3

Query Match 4.2%; Score 21; DB 4; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 377 GTTACTGCTGGCGCTCGCAGCTTCGGT 405
DB 1 GTTGTGCTGTGCTCGCAGCTTCGGT 29

RESULT 10
PCT-US93-11696-5
; Sequence 5, Application PC/TUS9311696
; GENERAL INFORMATION:
; APPLICANT: Foster, Donald C
; APPLICANT: Sprecher, Cindy
; APPLICANT: Norris, Kjeld
; TITLE OF INVENTION: NOVEL HUMAN AMYLOID PROTEIN PRECURSOR
; TITLE OF INVENTION: HOMOLOG AND KUNITZ-TYPE INHIBITOR
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ZymoGenetics, Inc.
; STREET: 4225 Roosevelt Way, N.E.
; CITY: Seattle
; STATE: WA
; COUNTRY: USA
; ZIP: 98105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US93/11696
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA: US 07/985,692
FILING DATE: 02-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Parker, Gary E
REGISTRATION NUMBER: 31-684
REFERENCE/DOCKET NUMBER: 92-21C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-547-8080 ext 322
TELEFAX: 206-548-2329
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
CLONE: ZC4792
PCT-US93-11696-5
Query Match 4.2%; Score 21; DB 5; Length 30;
Best Local Similarity 82.8%; Pred. No. 4.8e+03;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
QY 377 GTTACTGCTGGCGCTCCGACGTCCTCGGT 405
Db 1 GTTGTGCTGTTGCGCTCCGACGTCCTCGGT 29
RESULT 11
US-08-985-162-1712
Sequence 1712, Application US/08985162
Patent No. 60571156
GENERAL INFORMATION:
APPLICANT: Akhtar, Saghir
APPLICANT: Fell, Patricia
APPLICANT: McSwiggen, James
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
TITLE OF INVENTION: FACTOR RECEPTORS
NUMBER OF SEQUENCES: 1877
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,162
FILING DATE: 04 December 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/107

TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1712:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-985-162-1712
Query Match 4.1%; Score 20.2; DB 3; Length 50;
Best Local Similarity 60.6%; Pred. No. 9.3e+03;
Matches 20; Conservative 5; Mismatches 8; Indels 0; Gaps 0;
QY 268 GCAACACAGAGGTTTGACATGGAACAAACATGTTG 300
Db 1 GCACCCAGAGUUAUCCAGAGAAACACACGUG 33
RESULT 12
US-09-401-063-1712
Sequence 1712, Application US/09401063
Patent No. 6623962
GENERAL INFORMATION:
APPLICANT: Akhtar, Saghir
APPLICANT: Fell, Patricia
APPLICANT: McSwiggen, James
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
TITLE OF INVENTION: FACTOR RECEPTORS
NUMBER OF SEQUENCES: 1877
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSeq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/401,063
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/985,162
FILING DATE: 04 December 1997
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1712:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-401-063-1712

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Query Match          4.1%; Score 20.2; DB 4; Length 50;
Best Local Similarity 60.6%; Pred. No. 9.3e+03;
Matches 20; Conservative 5; Mismatches 8; Indels 0; Gaps 0;

QY      268  GCACACGAGGGTTTGACATGGAAACACATGTTG 300
          ||| ||| ||| ||| ||| ||| ||| ||| |||
Db       1  GCACCCAGAGUUUACGAGAAACACACGUUG 33

RESULT 13
US-09-133-774-26
; Sequence 26, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 42
; TYPE: DNA
; ORGANISM: Human
US-09-133-774-26

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Query Match      4.0%; Score 19.8; DB 2; Length 42;
Best Local Similarity 77.4%; Pred. No. 1.1e-04;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      115 CTCACGCCCTTTTCGCCACCTGACTAGTGGGCT 145
Db       12 CAGCACCCCTGTTTGCCAACTAGCTGGGCT 42

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RESULT 14
 US-09-303-862-26
 ; Sequence 26, Application US/09303862
 ; Patent No. 6034230
 ; GENERAL INFORMATION:
 ; APPLICANT: Bachmaier, Kurt
 ; APPLICANT: Hessel, Andrew J.
 ; APPLICANT: Neu M.D., Nikolaus
 ; APPLICANT: Penninger, Josef M.
 ; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
 ; TITLE OF INVENTION: Disease
 ; FILE REFERENCE: A-536
 ; CURRENT APPLICATION NUMBER: US/09/303,862
 ; CURRENT FILING DATE: 1999-05-03
 ; EARLIER APPLICATION NUMBER: 09/133,774
 ; EARLIER FILING DATE: 1998-08-12
 ; NUMBER OF SEQ ID NOS: 26
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 26
 ; LENGTH: 42
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-303-862-26

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Query Match      4.0%; Score 19.9; DB 3; Length 42;
Best Local Similarity 77.4%; Pred. No. 1.le+04;
Matches 24; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy      115  CTCGAGCCCTTTCTGCGACCTGTACTGGGGCT 145
Db      12   CAGCACCTGTTGGCAACTGTGTGGGGCT 42

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RESULT 15
US-08-985-162-1737
Sequence 1737, Application US/08985162
Patent No. 6057156
GENERAL INFORMATION:
APPLICANT: Akhtar, Saghir
APPLICANT: Fell, Patricia
APPLICANT: McSwiggen, James
TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT
TITLE OF INVENTION: OF DISEASES OR CONDITIONS RELATED
TITLE OF INVENTION: TO LEVELS OF EPIDERMAL GROWTH
TITLE OF INVENTION: FACTOR RECEPTORS
NUMBER OF SEQUENCES: 1877
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 MB
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Fastseq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/985,162
FILING DATE: 04 December 1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/036,476
FILING DATE: 31 January 1997
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 230/107
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 1737:
SEQUENCE CHARACTERISTICS:
LENGTH: 50 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-985-162-1737

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Query Match      4.0%; Score 19.8; DB 3; Length 50;
Best Local Similarity 51.1%; Pred. No. 1.2e+04;
Matches 24; Conservative 6; Mismatches 17; Indels 0; Gaps 0;

Qy      224  TGAACACACAGCTACGCTCAGCATCTCGAGATCTCTGAAGAAATTACTCTGGCA 270
Db      4    UGAAGAAGAACACACAGAGAAACACACGCUUGUGGUACAUAUACCUGGUA 50

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Search completed: May 26, 2004, 09:20:42Z
Job time : 97.1979 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:41:55 ; Search time 2173.84 Seconds
(without alignments)

1041.142 Million cell updates/sec

Title: US-10-048-046-1_COPY1516_2013

Perfect score: 498

Sequence: 1 tgcctctgcaagaagca.....gctactggggcgtaactgc 498

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 2953838 seqs, 2272363821 residues

Total number of hits satisfying chosen parameters: 1612472

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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6: /cgn2_6/ptodata/1/pubpna/PCTUS_PUBCOMB.seq:*
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12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq2:*
14: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
16: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
18: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	4.2	30	9	US-09-904-621-3
2	20.8	4.2	48	12	US-10-251-085B-26
3	20.4	4.1	47	16	US-10-251-085B-64
4	20.4	4.0	50	16	US-10-415-247-6
5	20	4.0	50	16	US-10-131-827-912
6	19.6	3.9	48	11	US-09-767-764A-12
7	19.6	3.9	48	15	US-10-285-010-20
8	19.6	3.9	50	16	US-10-131-827-7822
9	19.4	3.9	36	15	US-10-173-461-24
10	19	3.8	36	15	US-10-008-960-26
11	18.8	3.8	48	12	US-10-251-085B-27
12	18.8	3.8	48	12	US-10-251-085B-38
13	18.8	3.8	48	12	US-10-251-085B-65
14	18.8	3.8	48	12	US-10-251-085B-76

C 15	18.6	3.7	38	10	US-09-930-423-3110	Sequence 3110, Ap
C 16	18.6	3.7	38	10	US-09-745-237A-3110	Sequence 3110, Ap
C 17	18.6	3.7	42	14	US-10-090-983-11	Sequence 11, Appl
C 18	18.6	3.7	50	9	US-09-504-231A-2950	Sequence 2950, Ap
C 19	18.6	3.7	50	9	US-09-504-231A-3045	Sequence 3045, Ap
C 20	18.6	3.7	50	9	US-09-274-553D-2950	Sequence 2950, Ap
C 21	18.6	3.7	50	9	US-09-274-553D-3045	Sequence 3045, Ap
C 22	18.6	3.7	50	16	US-10-131-827-2864	Sequence 2864, Ap
C 23	18.4	3.7	36	15	US-10-205-942-25	Sequence 25, Appl
C 24	18.4	3.7	36	15	US-10-205-942-25	Sequence 26, Appl
C 25	18.4	3.7	37	17	US-10-138-674-18176	Sequence 18176, A
C 26	18.4	3.7	41	12	US-10-035-873A-4680	Sequence 4680, Ap
C 27	18.4	3.7	45	9	US-09-765-873A-29	Sequence 29, Appl
C 28	18.4	3.7	45	9	US-09-765-873A-30	Sequence 30, Appl
C 29	18.4	3.7	45	15	US-10-188-523B-29	Sequence 29, Appl
C 30	18.4	3.7	45	15	US-10-188-523B-30	Sequence 30, Appl
C 31	18.4	3.7	47	16	US-10-349-143-1087	Sequence 1087, Ap
C 32	18.4	3.7	50	16	US-10-131-827-390	Sequence 390, App
C 33	18.4	3.7	50	16	US-10-131-827-7211	Sequence 7211, Ap
C 34	18.2	3.7	46	9	US-09-766-898-14	Sequence 14, Appl
C 35	18.2	3.7	46	9	US-09-766-898-25	Sequence 25, Appl
C 36	18.2	3.7	46	9	US-09-766-916-14	Sequence 14, Appl
C 37	18.2	3.7	46	9	US-09-766-916-25	Sequence 25, Appl
C 38	18.2	3.7	46	15	US-10-306-247-14	Sequence 14, Appl
C 39	18.2	3.7	46	15	US-10-306-247-25	Sequence 25, Appl
C 40	18.2	3.7	46	15	US-10-306-246-14	Sequence 14, Appl
C 41	18.2	3.7	46	15	US-10-306-246-25	Sequence 25, Appl
C 42	18.2	3.7	46	15	US-10-306-249-14	Sequence 14, Appl
C 43	18.2	3.7	46	15	US-10-306-249-25	Sequence 25, Appl
C 44	18.2	3.7	46	15	US-10-306-013-14	Sequence 14, Appl
C 45	18.2	3.7	46	15	US-10-306-013-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1

US-09-904-621-3
; Sequence 3, Application US/09904621
; Patent No. US20020098560A1
; GENERAL INFORMATION:
; APPLICANT: Sprecher, Cindy A.
; APPLICANT: Kiesel, Walter
; APPLICANT: Foster, Donald C.
; TITLE OF INVENTION: NOVEL HUMAN KUNITZ-TYPE INHIBITORS
; TITLE OF INVENTION: AND
; TITLE OF INVENTION: METHODS RELATING THERETO
; FILE REFERENCE: 93-14D3
; CURRENT APPLICATION NUMBER: US/09/904,621
; CURRENT FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/265,627
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 5,455,338
; PRIOR FILING DATE: EARLIER FILING DATE: 1993-11-05
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 30
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide ZC4792
US-09-904-621-3

Query Match 4.2%; Score 21; DB 9; Length 30;

Best Local Similarity 82.8%; Pred. No. 1.le+04;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 377 GTTACTGCTGTCGCTGCAGCTCCGT 405

Db 1 GTTGTGCTGTGCTCCGAGCCCTCGT 29

; Sequence 12, Application US/09767764A
; Publication No. US20030207265A1
; GENERAL INFORMATION:
; APPLICANT: Church, George M.
; TITLE OF INVENTION: METHOD OF MAKING PROTEIN ARRAYS
; FILE REFERENCE: 10498-00009
; CURRENT APPLICATION NUMBER: US/09767,764A
; CURRENT FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: 09/522,732
; PRIOR FILING DATE: 2000-03-10
; NUMBER OF SEQ ID NOS: 37
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 12
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Amplification primer
US-09-767-764A-12

Query Match 3.9%; Score 19.6; DB 11; Length 48;
Best Local Similarity 73.5%; Pred. No. 3.5e+04;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 36 CTGCTCCAGCCCATGCCCGACGGAGCGGAG 69
DB 43 CTCCTCAAGCTTCGCCCGGAGGAGAAAGCGGAG 10

RESULT 7

US-10-285-010-20/c
; Sequence 20, Application US/10285010
; Publication No. US20030124594A1
; GENERAL INFORMATION:
; APPLICANT: Church, George
; APPLICANT: Mitra, Robi
; TITLE OF INVENTION: Replica Amplification Of Nucleic Acid Arrays
; FILE REFERENCE: 10498-00040
; CURRENT APPLICATION NUMBER: US/10/285,010
; CURRENT FILING DATE: 2002-10-31
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 48
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: amplification primer
US-10-285-010-20

Query Match 3.9%; Score 19.6; DB 15; Length 48;
Best Local Similarity 73.5%; Pred. No. 3.5e+04;
Matches 25; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 36 CTGCTCCAGCCCATGCCCGACGGAGCGGAG 69
DB 43 CTCCTCAAGCTTCGCCCGGAGGAGAAAGCGGAG 10

RESULT 8

US-10-131-827-7822
; Sequence 7822, Application US/10131827
; Publication No. US20040009479A1
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fty, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06

; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 7822
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-7822

Query Match 3.9%; Score 19.6; DB 16; Length 50;
Best Local Similarity 66.7%; Pred. No. 3.6e+04;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 197 TGGGTGACAAAGTCTCTGGACGGCGTGTGAACAACACAGCT 238
DB 1 TGGCGAGCCAGTCTCTGGATGGGATTCGTGATCAACAGAGTT 42

RESULT 9

US-10-173-461-24
; Sequence 24, Application US/10173461
; Publication No. US20030138795A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDE ENCODING A NOVEL HUMAN GROWTH FACTOR WITH HOMOLOGY
; TITLE OF INVENTION: EPIDERMAL GROWTH FACTOR, BGS-8, EXPRESSED HIGHLY IN IMMUNE TISSUE
; FILE REFERENCE: D0166 NP
; CURRENT APPLICATION NUMBER: US/10/173,461
; CURRENT FILING DATE: 2002-06-14
; PRIOR APPLICATION NUMBER: US 60/298,340
; PRIOR FILING DATE: 2001-06-14
; NUMBER OF SEQ ID NOS: 69
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 24
; LENGTH: 39
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-173-461-24

Query Match 3.9%; Score 19.4; DB 15; Length 39;
Best Local Similarity 70.3%; Pred. No. 3.9e+04;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 158 GCTGCTACGGCTGCTGGCCCGCTTTTGTGAGCTCAA 194
DB 1 GCAGCAGCGCGCGCATGGCCCCCTGGAGTGAGCACCA 37

RESULT 10

US-10-008-960-26
; Sequence 26, Application US/10008960
; Publication No. US2003013971A1
; GENERAL INFORMATION:
; APPLICANT: BAYLOR COLLEGE OF MEDICINE
; APPLICANT: SMITH, JAMES R.
; APPLICANT: DRUTZ, DAVID J.
; APPLICANT: WILSON, DEBORAH R.
; APPLICANT: ZUMSTEIN, LOUIS A.
; TITLE OF INVENTION: SENESENT CELL DERIVED INHIBITORS OF
; TITLE OF INVENTION: DNA SYNTHESIS
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: ROGERS & WELLS
; STREET: 200 PARK AVENUE
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: USA
; ZIP: 10166
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; NUMBER OF SEQ ID NOS: 4553

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:12:53 ; Search time 3457.26 Seconds
(without alignments)

4301.492 Million cell updates/sec

Title: US-10-048-046-1_COPY_1516_2013

Perfect score: 498

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Total number of hits satisfying chosen parameters: 138346

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: em_esthum:*

3: em_estin:*

4: em_estmu:*

5: em_estov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_estl:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: em_gss_hum:*

18: em_gss_inv:*

19: em_gss_pln:*

20: em_gss_vrt:*

21: em_gss_fun:*

22: em_gss_mam:*

23: em_gss_mus:*

24: em_gss_pro:*

25: em_gss_rtd:*

26: em_gss_phg:*

27: em_gss_vrl:*

28: gb_gsl:*

29: gb_gsl2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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2	20.8	4.2	50	9	AU105997
3	20.6	4.1	50	9	AU105996
4	20.2	4.1	47	28	CC178014 XC898 Bay

C 5	19.6	3.9	43	9	AA974059	AA974059
C 6	19.6	3.9	50	9	AU103246	AU103246
C 7	19.4	3.9	49	28	AZ606700	AZ606700
C 8	19.2	3.9	49	9	AA990168	AA990168
C 9	19	3.8	49	9	AI271755	AI271755
C 10	18.8	3.8	50	9	AU105998	AU105998
C 11	18.6	3.7	40	10	BF343276	BF343276
C 12	18.6	3.7	49	9	AA921726	AA921726
C 13	18.6	3.7	50	9	AU103244	AU103244
C 14	18.6	3.7	50	9	AU104470	AU104470
C 15	18.6	3.7	50	9	AU105005	AU105005
C 16	18.6	3.7	50	12	BI665523	BI665523
C 17	18.4	3.7	46	9	AI949114	AI949114
C 18	18.4	3.7	50	9	AU105237	AU105237
C 19	18.4	3.7	50	9	AU107915	AU107915
C 20	18.2	3.7	48	29	CG779308	CG779308
C 21	18.2	3.7	49	9	AA933611	AA933611
C 22	18	3.6	37	9	AI048978	AI048978
C 23	18	3.6	43	12	BI103457	BI103457
C 24	18	3.6	46	28	AZ512864	AZ512864
C 25	18	3.6	50	9	AU103249	AU103249
C 26	18	3.6	50	9	AU105753	AU105753
C 27	18	3.6	50	9	AU105754	AU105754
C 28	18	3.6	50	9	AU105755	AU105755
C 29	18	3.6	50	9	AU107902	AU107902
C 30	18	3.6	50	9	AU107933	AU107933
C 31	17.8	3.6	38	28	AZ868035	AZ868035
C 32	17.8	3.6	46	9	AA879784	AA879784
C 33	17.8	3.6	46	28	CC183613	CC183613
C 34	17.8	3.6	49	28	BH627713	BH627713
C 35	17.8	3.6	50	9	AU102353	AU102353
C 36	17.8	3.6	50	9	AU102354	AU102354
C 37	17.8	3.6	50	9	AU105314	AU105314
C 38	17.8	3.6	50	9	AU106718	AU106718
C 39	17.6	3.5	46	9	AI688909	AI688909
C 40	17.6	3.5	46	9	AA410197	AA410197
C 41	17.6	3.5	49	9	AI001027	AI001027
C 42	17.6	3.5	49	12	BM662480	BM662480
C 43	17.6	3.5	50	9	AU103245	AU103245
C 44	17.6	3.5	50	9	AU104468	AU104468
C 45	17.6	3.5	50	9	AU105698	AU105698

ALIGNMENTS

RESULT 1	AU105995	50 bp	mrna	linear	EST 30-AUG-2001
LOCUS	AU105995	Sugano Homo sapiens cDNA library	Homo sapiens	cdna	clone
DEFINITION	ADSE00435, mRNA sequence.				
ACCESSION	AU105995				
VERSION	AU105995.1	GI:13555516			
KEYWORDS	EST.				
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
AUTHORS	Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.				
TITLE	Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites				
JOURNAL	EMBO Rep. 2 (5), 388-393 (2001)				
MEDLINE	21270072				
PUBMED	11375929				
COMMENT	Contact: Yutaka Suzuki Department of Virology Institute of Medical Science, University of Tokyo 4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan Email: yezuk@iims.u-tokyo.ac.jp Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and				

```

ADSU02176, mRNA sequence.
ACCESSION      AU105996
VERSION        AU105996.1 GI:13555517
KEYWORDS       EST.
SOURCE         Homo sapiens (human)
ORGANISM       Homo sapiens
REFERENCE      Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS       Suzuki, Y., Taïra, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
              Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
              Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
              Diverse transcriptional initiation revealed by fine, large-scale
              mapping of mRNA start sites
JOURNAL        EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE        21270072
PUBMED         11375929
COMMENT        Contact: Yutaka Suzuki
                Department of Virology
                Institute of Medical Science, University of Tokyo
                4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
                Email: yasuk@ims.u-tokyo.ac.jp
                Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and
                Sugano, S. Construction and characterization of a full
                length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
                149-156 (1997).
FEATURES       source             Location/Qualifiers
                1..50
                /organism="Homo sapiens"
                /mol_type="mRNA"
                /db_xref="taxon:9606"
                /clone="ADSU02176"
                /clone_lib="Sugano Homo sapiens cDNA library"
ORIGIN
Query Match          4.1%; Score 20.6; DB 9; Length 50;
Best Local Similarity 67.4%; Pred.No.7.3e+05;
Matches 29; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY    43   CAGCGCCATGCCCCACGGAGAGCGGAGCGCAGGACGAGCACCGCC 85
        |||||
DB     6   CTGCCGAGGCTCGCGCGAGAGCGTGTGAGCGCGCGCCGCTGCCTCCC 48
|||||
RESULT 4
LOCUS      CC178014
DEFINITION CC178014 Xc898 BayGenomics Gene Trap Library pGTLxf Mus musculus cDNA, mRNA
sequence.
ACCION     CC178014
VERSION    CC178014.1 GI:30316565
KEYWORDS   GSS.
SOURCE     Mus musculus (house mouse)
ORGANISM   Mus musculus
REFERENCE   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS     Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
            1 (bases 1 to 47)
TITLE      BayGenomics.
COMMENT    http://baygenomics.ucsf.edu/
            Contact: BayGenomics
            Bay Area Functional Genomics Consortium (BayGenomics)
            Email: info@baygenomics.ucsf.edu
            Sequence tag generated by 5' RACE of total RNA from gene trap ES
            cell line. ES cell lines harboring insertion mutation of target
            gene are available upon request from BayGenomics. Annotation
            information available from
            http://baygenomics.ucsf.edu/cgi-bin/BaySearch.py?OPTION=EXACT&TYPE=S
CELL_LINE=&KEY=Xc898
Class: Gene Trap.
            Location/Qualifiers
            1..47
            /organism="Mus musculus"

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/mol_type="mRNA"
/strain="129 OLA"
/db_xref="taxon:10090"
/sex="Male"
/cell_type="Embryonic stem cell"
/clone_lib="BayGenomics Gene Trap Library pGTLxlf"
/note="Vector: pGTLxlf"

ORIGIN

Query Match 4.1%; Score 20.2; DB 28; Length 47;
Best Local Similarity 68.3%; Pred. No. 8.9e+05;
Matches 28; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 113 GCTGAGCCTTTGTCACCTGTACTGGGGTGCACCGG 153
|||
Db 7 GCTGCTGCTTTTCGCCCTCCGAGATGCGCTGACCCCG 47

RESULT 5
AA974059/c
LOCUS
DEFINITION
AA974059 43 bp mRNA linear EST 07-JUL-1998
OQ05h07.s1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1585501 3'
similar to SW/ASHI HUMAN P50553 ACHASTE-SCUTE HOMOLOG 1. ;contains
element TARI repetitive element ;, mRNA sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 43)
Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
JOURNAL
MEDLINE
PUBMED
COMMENT
Contact: Robert Strausberg, Ph.D.
Email: cgabs@emil.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Trace considered overall poor quality
Insert length: 802 Std Error: 0.00
Seq primer: -40m13 fwd. ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1..43
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1585501"
/tissue_type="carcinoid"
/lab_host="DH10B"
/clone_lib="NCI-CGAP Lu5"
/notes="Organ: lung; Vector: p773D-Pac (Pharmacia) with a
modified polylinker; 1st strand cDNA was prepared from
neuroendocrine lung carcinoid, and was then primed with a
Not I - oligo(dT) primer. Double-stranded cDNA was ligated
to Eco RI adaptors (Pharmacia), digested with Not I and
cloned into the Not I and Eco RI sites of the modified
p773 vector. Library is normalized. Library was
constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN

Query Match 3.9%; Score 19.6; DB 9; Length 43;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 146 GCACCCGACCGCTGCTACGGTGTGCTGCCCGCTTTGTG 187
|||
Db 42 GCCCCTGAGCGGCTGGTGGCGCGCGTCTCAGCTCGCG 1

RESULT 6
AU103246/c
LOCUS
DEFINITION
AU103246 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
KAT01774, mRNA sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
JOURNAL
MEDLINE
PUBMED
COMMENT
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yezukui@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and
Sugano, S. Construction and characterization of a full
length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
149-156 (1997).
Location/Qualifiers
1..50
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="KAT01774"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 3.9%; Score 19.6; DB 9; Length 50;
Best Local Similarity 66.7%; Pred. No. 1.3e+06;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 40 TTCAGCCCATGCCGACCGAGCGGCGGCGGAGCAGGAC 81
|||
Db 45 TACCAGACCGCGCCCTTGTGTGAGACGCGCGGAGCCCGGAC 4

RESULT 7
AZ606700/c
LOCUS
DEFINITION
AZ606700 Mouse 10kb plasmid UGCLM library Mus musculus genomic
clone UUGC1M0428E15 R, genomic survey sequence.
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
Mus musculus (house mouse)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 49)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, S., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausen, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

ORIGIN

Query Match 3.9%; Score 19.6; DB 9; Length 43;
Best Local Similarity 66.7%; Pred. No. 1.2e+06;
Matches 28; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

JOURNAL
COMMENT

Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLCT, UT
84112, USA
Tel: 801 585 506
Fax: 801 585 7177
Email: dunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0428 row: E column: 15
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 49.
Location/Qualifiers
1. 49
/organism="Mus musculus"
/mol_type="genomic DNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="UUCG1M0428B15"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/clone_lib="Mouse 10kb plasmid UUCG1M library"
/note="Vector: PWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PWD42 (gil4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN

Query Match 3.9%; Score 19.4; DB 28; Length 49;
Best Local Similarity 64.4; Pred. No. 1.4e+06;
Matches 29; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 90 CGCCCTCAGAGTGTGGGTCTGCTGCAGCGCTTTCTGCCACCT 134
Db 47 CTCCTCTCTTACCTGCGGCTTCAGCGCGCTTCTCTCAACAT 3

RESULT 8
AA990168/c
LOCUS
DEFINITION
IMAGE:1361894 5' similar to TR:O14731 O14731 MEMBRANE-ASSOCIATED
KINASE. [1] ; mRNA sequence.
AA990168
AA990168.1 GI:3175532
EST.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 40).
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubucq, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Theising, B., Wyllie, T., Lennon, G., Soares, B., Wilson, R. and
White, P.

REFERENCE
AUTHORS

CDNA Library Preparation: M. Bento Soares, Ph.D.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 1806 Std Error: 0.00
Seq primer: -400p from Gibco
High quality sequence stop: 1.
Location/Qualifiers

FEATURES

source

1. .49

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:1865484"

/lab_host="DH10B"

/clone_lib="NCI_CGAP Kid3"

/note="Organ: kidney; Vector: p773D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer,
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Not I and cloned into the Not
I and Eco RI sites of the modified p773 vector. mRNA
source: 2 pooled kidneys. Library went through one round
of normalization. Library constructed by Bento Soares and
M. Fatima Bonaldo. "

ORIGIN

Query Match 3.8%; Score 19; DB 9; Length 49;

Best Local Similarity 71.4%; Pred. No. 1.8e+06;

Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 62 GAGCGGCGCGAGCAGGACCGCGTGTGCGCCCT 96

Db 39 GGCGGCACTCCAGCAGGCGCGCGCTGTGCGCT 5

RESULT 10

AU105998

LOCUS

DEFINITION AU105998 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone

W0521, mRNA sequence.

ACCESSION AU105998

VERSION AU105998.1 GI:13555519

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 50)

Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J.,

Hata,H., Ota,T., Isoigai,T., Tanaka,T., Morishita,S., Okubo,K.,

Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.

Diverse transcriptional initiation revealed by fine, large-scale

mapping of mRNA start sites

EMBO Rep. 2 (5), 388-393 (2001)

21270072

PUBMED

COMMENT

Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan

Email: yusuzuki@ims.u-tokyo.ac.jp

Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and

Sugano,S. Construction and characterization of a full

length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),

149-156 (1997).

FEATURES

source

1. .50

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="W0521"

/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 3.8%; Score 18.8; DB 9; Length 50;

Best Local Similarity 63.0%; Pred. No. 2e+06;

Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 38 GCTTCCAGCCCATGCCGACCGGAGAGCGGAGCGCGAGGAGGCC 83

Db 1 GTTGCTGCCGAGGCTGGCGGAGCGGTGGAGCCCGCGCTGCC 46

RESULT 11

BF343276/c

LOCUS

DEFINITION 602015935F1 NCI_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4151432

5', mRNA sequence.

ACCESSION BF343276

VERSION BF343276.1 GI:11290436

KEYWORDS EST.

SOURCE

Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 40)

NIH-MGC http://mgc.nci.nih.gov/.

National Institutes of Health, Mammalian Gene Collection (MGC)

TITLE

JOURNAL

COMMENT

Contact: Robert Strausberg, Ph.D.

Email: cgapbs-remail.nih.gov

Tissue Procurement: David N. Louis, M.D.

cDNA Library Preparation: Life Technologies, Inc.

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

http://image.llnl.gov

Plate: L1AM9416 row: f column: 09

High quality sequence stop: 38.

FEATURES

source

1. .40

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="IMAGE:4151432"

/tissue_type="glioiblastoma with EGFR amplification"

/lab_host="DH10B (T1 phage-resistant)"

/clone_lib="NCI_CGAP Brn64"

/note="Organ: brain; Vector: pCMV-SPORT6; Site 1: NotI;

Site 2: SalI; Cloned unidirectionally. Primer: Oligo dt.

Average insert size 1.57 kb. Constructed by Life

Technologies. Note: this is a NCI_CGAP Library."

ORIGIN

Query Match 3.7%; Score 18.6; DB 10; Length 40;

Best Local Similarity 72.7%; Pred. No. 2e+06; Indels 0; Gaps 0;

Matches 24; Conservative 0; Mismatches 9;

QY 140 GGGGCTGCACCCGAGCCGGCTGTCTACGGCTGCC 172

Db 33 GGAGCTGCAGACGACCCGCTGGGAGCCGCGAGCC 1

RESULT 12

AA921726/c

LOCUS

DEFINITION AA921726 49 bp mRNA linear EST 13-MAY-1998

ch08d02.s1 NCI_CGAP C08 Homo sapiens cDNA clone IMAGE:1457187 3,

similar to TR:O15551 O15551 RAT VENTRAL PROSTATE.1 HOMOLOG. ;, mRNA

sequence.

ACCESSION AA921726

VERSION AA921726.1 GI:3068914

KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
1 (bases 1 to 49)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
JOURNAL National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
COMMENT Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-i@mail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CCAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html

Trace considered overall poor quality
Insert Length: 739 Std Error: 0.00
Seq primer: -40m13 fwd. BT from Amersham
High quality sequence stop: 1.

FEATURES
source
1..49
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1457187"
/tissue_type="adenocarcinoma"
/lab_host="DH10B"
/clone_lib="NCI CGAP C08"
/notes="Organ: Colon; Vector: pTV73D-Pac (Pharmacia) with a modified polylinker; 1st strand cDNA was prepared from colon adenocarcinoma, and was then primed with a Not I - oligo(dT) primer. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pTV73 vector. Library is normalized. Library was constructed by Bento Soares and M. Fatima Bonaldo."

ORIGIN
Query Match 3.7%; Score 18.6; DB 9; Length 49;
Best Local Similarity 84.0%; Pred. No. 2.2e+06;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 21 CGCCCTGTGCACCTGCTGCTTCCAG 45
|||||
Db 35 CGCCAGTGCACCTACTGCTGCTGAG 11
|||||

RESULT 13
AU103244/C
LOCUS AU103244 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION COLP6658, mRNA sequence.
ACCESSION AU103244
VERSION AU103244.1 GI:13552765
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE 21270072

PUBMED
COMMENT

11375929
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source

1..50
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="COLF6658"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 3.7%; Score 18.6; DB 9; Length 50;
Best Local Similarity 61.2%; Pred. No. 2.3e+06;
Matches 30; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 40 TTCCAGCCCATGCCGACCGAGCGAGCGGAGCGGAGCGGAGCGGCGGTG 88
|||||
Db 49 TACCAGACCGCGCCCTTGTGAGGACACGCCGCGGAGCGGAGCGGCGGTG 1
|||||

RESULT 14

AU104470
LOCUS AU104470 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION KAT02069, mRNA sequence.
ACCESSION AU104470
VERSION AU104470.1 GI:13553991
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J., Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K., Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
JOURNAL EMBO Rep. 2 (5), 388-393 (2001)
MEDLINE 21270072
PUBMED 11375929
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and Sugano, S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
source

1..50
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="KAT02069"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 3.7%; Score 18.6; DB 9; Length 50;
Best Local Similarity 65.9%; Pred. No. 2.3e+06;
Matches 27; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 303 CGAGAGCCTCGTGGCTCTCCAGCGGCGAGTGTTCGTGTGT 343
|||||

Search completed: May 26, 2004, 09:17:50
Job time : 3459.26 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:10:28 ; Search time 1630.25 Seconds
(without alignments)
5822.506 Million cell updates/sec

Title: US-10-048-046-1_COPY_181_399
Perfect score: 219
Sequence: 1 gctctctggaagcgga.....tacagactggggtgctac 219

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 1603530

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

- 1: gb_ba.*
- 2: gb_htg.*
- 3: gb_in.*
- 4: gb_om.*
- 5: gb_ov.*
- 6: gb_pat.*
- 7: gb_ph.*
- 8: gb_pl.*
- 9: gb_pri.*
- 10: gb_ro.*
- 11: gb_ats.*
- 12: gb_sy.*
- 13: gb_un.*
- 14: gb_vi.*
- 15: em_ba.*
- 16: em_fun.*
- 17: em_hum.*
- 18: em_in.*
- 19: em_mu.*
- 20: em_om.*
- 21: em_of.*
- 22: em_ov.*
- 23: em_pat.*
- 24: em_ph.*
- 25: em_pl.*
- 26: em_ro.*
- 27: em_ats.*
- 28: em_un.*
- 29: em_vi.*
- 30: em_htg_hum.*
- 31: em_htg_inv.*
- 32: em_htg_other.*
- 33: em_htg_mus.*
- 34: em_htg_pln.*
- 35: em_htg_rod.*
- 36: em_htg_nam.*
- 37: em_htg_vrt.*
- 38: em_sy.*
- 39: em_htgo_hum.*
- 40: em_htgo_mus.*
- 41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	19.8	9.0	50	6	AX165857	AX165857 Sequence
2	19.4	8.9	40	6	AB3617	AB3617 Sequence 46
3	19	8.7	47	6	AX194693	AX194693 Sequence
4	18.8	8.6	38	6	AR013934	AR013934 Sequence
5	18.4	8.4	38	6	AR020204	AR020204 Sequence
6	18.4	8.4	38	6	AR032156	AR032156 Sequence
7	18.4	8.4	38	6	AR043821	AR043821 Sequence
8	18.4	8.4	38	6	AR072133	AR072133 Sequence
9	18.4	8.4	38	6	AR095987	AR095987 Sequence
10	18.4	8.4	38	6	AR136647	AR136647 Sequence
11	18.4	8.4	38	6	AR157182	AR157182 Sequence
12	18.4	8.4	38	6	AR164131	AR164131 Sequence
13	18.4	8.4	38	6	I32817	I32817 Sequence 13
14	18.4	8.4	38	6	I59631	I59631 Sequence 13
15	18.4	8.4	38	6	AX127254	AX127254 Sequence
16	18.4	8.4	38	6	AX800785	AX800785 Sequence
17	18.4	8.4	46	6	I18512	I18512 Sequence 12
18	18.4	8.4	47	6	AR289961	AR289961 Sequence
19	18.2	8.3	43	6	BD174678	BD174678 Ribozyme
20	18	8.2	29	6	BD140120	BD140120 Secrated
21	18	8.2	42	6	AX328821	AX328821 Sequence
22	18	8.2	42	6	BD132386	BD132386 DNA diagn
23	18	8.2	50	6	E44269	E44269 Oligo-DNA s
24	18	8.2	50	6	AX697058	AX697058 Sequence
25	17.8	8.1	49	6	AR032442	AR032442 Sequence
26	17.8	8.1	49	6	I29182	I29182 Sequence 54
27	17.8	8.1	49	6	I90856	I90856 Sequence 54
28	17.8	8.1	49	6	AR209106	AR209106 Sequence
29	17.6	8.0	40	6	AX060727	AX060727 Sequence
30	17.6	8.0	40	6	AX060906	AX060906 Sequence
31	17.6	8.0	41	6	AX518097	AX518097 Sequence
32	17.4	7.9	41	6	AX513875	AX513875 Sequence
33	17.4	7.9	41	6	AX519151	AX519151 Sequence
34	17.4	7.9	47	6	AR284501	AR284501 Sequence
35	17.4	7.9	50	6	AR032934	AR032934 Sequence
36	17.4	7.9	50	6	I29674	I29674 Sequence 54
37	17.4	7.9	50	6	I91348	I91348 Sequence 54
38	17.4	7.9	50	6	AR209598	AR209598 Sequence
39	17.2	7.9	38	6	AR210306	AR210306 Sequence
40	17.2	7.9	38	6	AX402734	AX402734 Sequence
41	17.2	7.9	41	6	AR061380	AR061380 Sequence
42	17.2	7.9	41	6	AR108279	AR108279 Sequence
43	17.2	7.9	41	6	I16236	I16236 Sequence 62
44	17.2	7.9	41	6	I66722	I66722 Sequence 62
45	17.2	7.9	41	6	I84816	I84816 Sequence 62

ALIGNMENTS

RESULT 1
AX165857
LOCUS AX165857 50 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 1052 from Patent W00138586.
ACCESSION AX165857
VERSION AX165857.1 GI:14546686
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Shimkets R.A. and Leach M.
TITLE Nucleic acids containing single nucleotide polymorphisms and
methods of use thereof

JOURNAL Patent: WO 0138586-A 1052 31-MAY-2001;
Curagen Corporation (US)
FEATURES Location/Qualifiers
source 1..50
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
misc_feature 25..26
/note="Nucleotide deleted between bases 25 and 26"
Accession number CG4004690
variation 26
/note="single nucleotide polymorphism"
ORIGIN
Query Match 9.0%; Score 19.8; DB 6; Length 50;
Best Local Similarity 69.2%; Pred. No. 2.3e+05;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 9 GAGGAGCGGAGGTGGACCATCGCGGAGGAGGAGGTTG 47
|||||
Db 1 GAGGAGGAGGAGGTGGAGGAGGAGGAGGAGGAGGATG 39
|||||
RESULT 2
LOCUS A83617 40 bp DNA linear PAT 21-JAN-2000
DEFINITION Sequence 46 from Patent WO9849324.
ACCESSION A83617
VERSION A83617.1 GI:6732869
KEYWORDS unidentifed
SOURCE unidentifed
ORGANISM unclassified
REFERENCE 1 (bases 1 to 40)
AUTHORS Matheijls,G.
TITLE CARBOHYDRATE-DEFICIENT GLYCOPROTEIN SYNDROME TYPE I
JOURNAL Patent: WO 9849324-A 46 05-NOV-1998;
MATTHEIJS GERT (BE); GENZYME LTD (GB)
FEATURES Location/Qualifiers
source 1..40
/organism="unidentifed"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"
ORIGIN
Query Match 8.9%; Score 19.4; DB 6; Length 40;
Best Local Similarity 79.3%; Pred. No. 3.1e+05;
Matches 23; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY 97 ATTGTAGTGGATGAATAATCAGGTCAGGT 125
|||||
Db 4 ATTGTAGTGGTGAATAAGTGTAGACAGGT 32
|||||
RESULT 3
AX194693/c
LOCUS AX194693 47 bp DNA linear PAT 28-AUG-2001
DEFINITION Sequence 163 from Patent WO0151659.
ACCESSION AX194693
VERSION AX194693.1 GI:15385340
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Chu,T.; Blumenfeld,M. and Cohen,D.
TITLE Biallelic markers derived from genomic regions carrying genes involved in central nervous system disorders
JOURNAL Patent: WO 0151659-A 163 19-JUL-2001;
GENSET (FR)
FEATURES Location/Qualifiers
source 1..47
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
variation 24
/note="99-27562-366 : polymorphic base G or T"
ORIGIN
Query Match 8.7%; Score 19; DB 6; Length 47;
Best Local Similarity 67.6%; Pred. No. 4.2e+05;
Matches 25; Conservative 1; Mismatches 11; Indels 0; Gaps 0;
QY 170 TGAAGCTGTGTAAGAAGCAGACATGCCCTTTACAGAC 206
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Db 38 TGTAGATGTTTAAGAGCATTCCTGGCCTCTACCCAC 2
|||||
RESULT 4
AR013934/c
LOCUS AR013934 38 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 23 from patent US 5773223.
ACCESSION AR013934
VERSION AR013934.1 GI:3971388
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 38)
AUTHORS Shyamala,V. and Olson,P.Tekamp.
TITLE Endothelin B sub.1, (ETB sub.1) receptor polypeptide and its encoding nucleic acid methods, and uses thereof
JOURNAL Patent: US 5773223-A 23 30-JUN-1998;
FEATURES Location/Qualifiers
source 1..38
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN
Query Match 8.6%; Score 18.8; DB 6; Length 38;
Best Local Similarity 68.4%; Pred. No. 4.9e+05;
Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 65 GCATTAACCTGGTCTCTGGAGATCAGTGTAGAAATTGTA 102
|||||
Db 38 GCAACAGCTCGATATCTGAAGATAAAATAGAAATTGTA 1
|||||
RESULT 5
AR020204/c
LOCUS AR020204 38 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 13 from patent US 5789156.
ACCESSION AR020204
VERSION AR020204.1 GI:3974819
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 38)
AUTHORS Bujard,H. and Gossen,M.
TITLE Tetracycline-regulated transcriptional inhibitors
JOURNAL Patent: US 5789156-A 13 04-AUG-1998;
FEATURES Location/Qualifiers
source 1..38
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN
Query Match 8.4%; Score 18.4; DB 6; Length 38;
Best Local Similarity 69.4%; Pred. No. 6.7e+05;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 148 AGTGGACACAGTGTATTAAACAAGCTGAAGGTTGTTAAG 183
|||||
Db 38 AATTAACTGTGATAAAGTAACTAGCTTATCGATGATAG 3
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TITLE Mice transgenic for a tetracycline-inducible transcriptional activator
JOURNAL Patent: US 5912411-A 13 15-JUN-1999;
FEATURES Location/Qualifiers
source 1..38
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN
Query Match 8.4%; Score 18.4; DB 6; Length 38;
Best Local Similarity 69.4%; Pred. No. 6.7e+05;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 148 AGTGGAACAGTGATTAAACAAGCTGAAGGTGTGTTAAG 183
Db 38 AATTAACTGTGATTAACCTAGCTTATCGATGATAAG 3

RESULT 9
AR095987/c
LOCUS AR095987 38 bp DNA
DEFINITION Sequence 13 from patent US 6004941.
ACCESSION AR095987
VERSION AR095987.1 GI:10024380
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 38)
AUTHORS Bujard,H. and Gossen,M.
TITLE Methods for regulating gene expression
JOURNAL Patent: US 6004941-A 13 21-DEC-1999;
FEATURES Location/Qualifiers
source 1..38
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN
Query Match 8.4%; Score 18.4; DB 6; Length 38;
Best Local Similarity 69.4%; Pred. No. 6.7e+05;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 148 AGTGGAACAGTGATTAAACAAGCTGAAGGTGTGTTAAG 183
Db 38 AATTAACTGTGATTAACCTAGCTTATCGATGATAAG 3

RESULT 10
AR136647/c
LOCUS AR136647 38 bp DNA
DEFINITION Sequence 13 from patent US 6136954.
ACCESSION AR136647
VERSION AR136647.1 GI:14477319
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 38)
AUTHORS Bujard,H. and Gossen,M.
TITLE Tetracycline-inducible transcriptional activator fusion proteins
JOURNAL Patent: US 6136954-A 13 24-OCT-2000;
FEATURES Location/Qualifiers
source 1..38
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN
Query Match 8.4%; Score 18.4; DB 6; Length 38;
Best Local Similarity 69.4%; Pred. No. 6.7e+05;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
QY 148 AGTGGAACAGTGATTAAACAAGCTGAAGGTGTGTTAAG 183

AUTHORS Bujard,H., Gossen,M., Hillen,W., Helbl,V. and Schnappinger,D.
 TITLE Tetracycline-regulated transcriptional modulators with altered DNA binding specificities
 JOURNAL Patent: US 5589362-A 13 31-DEC-1996;
 FEATURES Location/Qualifiers
 source 1..38
 /organism="unknown"
 /mol_type="unassigned DNA"
 ORIGIN
 Query Match 8.4%; Score 18.4; DB 6; Length 38;
 Best Local Similarity 69.4%; Pred. No. 6.7e+05;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGACAGTGATTAAACAAAGCTGAAGGTTGTTAAG 183
 Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3
 RESULT 14
 I59631/c
 LOCUS 159631 38 bp DNA linear PAT 07-OCT-1997
 DEFINITION Sequence 13 from patent US 5654168.
 ACCESSION I59631
 VERSION I59631.1 GI:2478263
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1. (bases 1 to 38)
 AUTHORS Bujard,H. and Gossen,M.
 TITLE Tetracycline-inducible transcriptional activator and tetracycline-regulated transcription units
 JOURNAL Patent: US 5654168-A 13 05-AUG-1997;
 FEATURES Location/Qualifiers
 source 1..38
 /organism="unknown"
 /mol_type="unassigned DNA"
 ORIGIN
 Query Match 8.4%; Score 18.4; DB 6; Length 38;
 Best Local Similarity 69.4%; Pred. No. 6.7e+05;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 Qy 148 AGTGGACAGTGATTAAACAAAGCTGAAGGTTGTTAAG 183
 Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3
 RESULT 15
 AX127254/c
 LOCUS AX127254 38 bp DNA linear PAT 15-MAY-2001
 DEFINITION Sequence 13 from Patent EP1092771.
 ACCESSION AX127254
 VERSION AX127254.1 GI:14133334
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 REFERENCE 1
 AUTHORS Bujard,H. and Gossen,M.
 TITLE Tetracycline-regulated transcriptional modulators
 JOURNAL Patent: EP 1092771-A 13 18-APR-2001;
 BASF AKTIENGESSELLSCHAFT (DE); KNOLL AKTIENGESSELLSCHAFT (DE)
 FEATURES Location/Qualifiers
 source 1..38
 /organism="unidentified"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32644"
 ORIGIN
 Query Match 8.4%; Score 18.4; DB 6; Length 38;
 Best Local Similarity 69.4%; Pred. No. 6.7e+05;

Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

Qy 148 AGTGGACAGTGTATTAACTAAGCTGAAGTTGTTAAG 183
Db 38 AATTAACTGTGATAAAGCTTATCGATGATAAG 3

Search completed: May 26, 2004, 07:39:16
Job time : 1632.25 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:01:38 ; Search time 184.951 Seconds
(without alignments)
5030.293 Million cell updates/sec

Title: US-10-048-046-1_COPY181_399

Perfect score: 219
Sequence: 1 gtctctctggaagcggga.....tacagactggggatgtcatc 219

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 3185356

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_29Jan04.*
1: Geneseq1980s.*
2: Geneseq1990s.*
3: Geneseq2000s.*
4: Geneseq2001as.*
5: Geneseq2001bs.*
6: Geneseq2002s.*
7: Geneseq2003as.*
8: Geneseq2003bs.*
9: Geneseq2003cs.*
10: Geneseq2004s.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	20.2	9.2	50	4	AAL29957 Human SNP
C 2	20	9.1	28	5	AAL29957 Human che
C 3	19.8	9.0	50	5	ABL01061 Human SNP
C 4	19.2	8.8	41	6	ABV76434 Human DNA
C 5	19	8.7	47	4	AAL88323 CNS disor
C 6	18.8	8.6	38	2	AAV35018 Human end
C 7	18.8	8.6	47	3	AAL67349 Human map
C 8	18.4	8.4	38	2	AAL11362 Class C t
C 9	18.4	8.4	38	2	AAL45713 Class C t
C 10	18.4	8.4	38	2	AAV60085 Class C t
C 11	18.4	8.4	38	2	AAV60051 Class C t
C 12	18.4	8.4	38	3	AAL256132 Class C t
C 13	18.4	8.4	38	4	AAV61972 Nucleotid
C 14	18.4	8.4	38	4	AAL47637 Nucleotid
C 15	18.4	8.4	38	5	AAL25578 Nucleotid
C 16	18.4	8.4	38	6	ABK98648 Sequence
C 17	18.4	8.4	38	7	ACA94740 Class C T
C 18	18.4	8.4	38	7	ABX16493 Tet opera
C 19	18.4	8.4	38	8	ACD13899 Tetracycl
C 20	18.4	8.4	38	9	AD52396 Tet opera
C 21	18.4	8.4	46	2	AAT08997 Insulin r
C 22	18.4	8.4	50	4	AAL28949 Human SNP
C 23	18.4	8.4	50	6	AB204239 Human leu

C 24	18.4	8.4	50	6	ABZ03712 Human leu
C 25	18.2	8.3	33	9	ADD28164 Reticuloc
C 26	18.2	8.3	41	6	AAL53837 Human cyc
C 27	18.2	8.3	43	7	AB221215 Nucleotid
C 28	18.2	8.3	50	6	AB204919 Human leu
C 29	18.2	8.3	50	6	AB206364 Human leu
C 30	18.2	8.3	50	6	AB206168 Human leu
C 31	18	8.2	29	2	AAAX90453 Human sec
C 32	18	8.2	29	4	AAAS9360 Human sec
C 33	18	8.2	29	6	ABA91029 Biotinyla
C 34	18	8.2	42	2	AAV39800 Oligonucl
C 35	18	8.2	50	3	AAAS2575 HCV RNA p
C 36	18	8.2	50	3	AAAL37201 Human PRO
C 37	18	8.2	50	4	AAL34067 Human SNP
C 38	18	8.2	50	4	AAFS4292 Probe #22
C 39	18	8.2	50	8	ACD68329 Novel hum
C 40	18	8.2	50	8	ACH04431 Human sec
C 41	18	8.2	50	8	ACD67975 Novel hum
C 42	18	8.2	50	9	ADC17995 Human PRO
C 43	18	8.2	50	9	ADD70641 Human sec
C 44	18	8.2	50	9	ADD39718 Human sec
C 45	18	8.2	50	9	ADD70164 Human sec

ALIGNMENTS

RESULT 1
AAL29957/c
ID AAL29957 standard; DNA; 50 BP.
XX

AC AAL29957;

XX 24-JAN-2002 (first entry)

XX Human SNP oligonucleotide #3165.

XX Immunosuppressive; immunostimulatory; antiinflammatory; cytostatic;
KW neuroprotective; antimicrobial; Gene therapy; vaccine; amylase; cancer;
KW amyloid protein; angiotensin; apoptosis related protein; cadherin;
KW cyclin; polymerase; oncogene; histone; kinase; colony stimulating factor;
KW complement related protein; cytochrome; kinesin; cytokine; interferon;
KW interleukin; G-protein coupled receptor; thioesterase; inflammation;
KW multifactorial disease; autoimmune disease; infection;
KW nervous system disease; ss.

XX Homo sapiens.

XX WO200147944-A2.

XX 05-JUL-2001.

XX 28-DEC-2000; 2000WO-US035498.

XX 28-DEC-1999; 99US-0173419P.

XX 27-DEC-2000; 2000US-00173419.

XX (CURA-) CURAGEN CORP.

XX Shimkets RA, Leach M;

XX WPI; 2001-465210/50.

XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.

XX Claim 1; Page 2293; 4143pp; English.

XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related

CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins, G-protein coupled receptors and thioesterases. The present sequence is one such oligonucleotide. The oligonucleotides and the peptides encoded by them may be used in the prevention, diagnosis and treatment of diseases associated with inappropriate expression of the proteins listed above.

CC Disorders that may be prevented, diagnosed and/or treated include

CC multifactorial diseases with a genetic component, such as autoimmune diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes, systemic lupus erythematosus and Grave's disease), inflammation, cancer (e.g. cancers of the bladder, brain, breast, colon and kidney, leukaemia), diseases of the nervous system and an infection of pathogenic organisms

XX

SQ Sequence 50 BP; 8 A; 19 C; 11 G; 12 T; 0 U; 0 Other;

Query Match 9.2%; Score 20.2; DB 4; Length 50;

Best Local Similarity 75.8%; Pred. No. 6.9e+03;

Matches 25; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 118 GGTGAGTGACACTGGGAAGATACGACGACGAGT 150

DB 39 GGTGGGTGGAACTGGGCACATGCGACGACCACT 7

RESULT 2

ID AAF30355

XX AAF30355 standard; DNA; 28 BP.

AC AAF30355;

XX

DT 14-MAY-2001 (first entry)

XX

DE Human checkpoint gene chr 5' PCR primer.

XX

KW Checkpoint with forkhead associated domain and ring finger; Chrfr; human;

KW mitosis; cell cycle; tumour; diagnosis; antitumour; drug screening;

KW ubiquitin-protein ligase; PCR primer; ss.

XX

OS Homo sapiens.

XX

PN WO200109150-A2.

XX

PD 08-FEB-2001.

XX

PP 14-JUN-2000; 2000WO-US016391.

XX

PR 29-JUL-1999; 99US-0146194P.

XX

PA (WIST-) WISTAR INST ANATOMY & BIOLOGY.

XX

PI Halazonetis T, Scolnick D;

XX

DR WPI; 2001-182927/18.

XX

PT Novel nucleic acid sequence of mitotic checkpoint gene encoding a

PT checkpoint with forkhead-associated domain and ring finger protein, for

PT diagnosing tumorigenic cells and in screening for anticancer drugs.

XX

PS Example 3; Page 38; 85pp; English.

XX

CC The present sequence is that of a 5' PCR primer, used with the 3' primer

CC given in AAF30356, to amplify a cDNA fragment corresponding to

CC nucleotides 352-1055 of the human chr sequence given in AAF30352. The

CC chr gene encodes the human mitotic checkpoint protein Chrfr (see

CC AAB20219), which is required for regulation of the transition of cells

CC from prophase to metaphase during mitosis. Loss of expression of Chrfr is

CC associated with a predisposition to tumourigenesis upon exposure to

CC mitotic stresses. A set of primers (see AAF30353-76) was used to amplify

CC regions spanning the entire chr coding region in order to determine

CC whether the chr gene is mutated in any of the human cancer cell lines

CC SW480, DLD1, HT29, HCT116, SAOS2, U2OS, IMR5 and NGP. A mutation leading

CC to a Val-580 to Met amino acid substitution was identified in the chr

CC gene of U2OS cells. Chrfr polypeptides and chrfr nucleic acids are used in

CC methods of diagnosing tumorigenic cells and of screening for drugs which

CC can inhibit the activity of Chrfr in a cancer cell, rendering it more

CC sensitive to additional antitumour therapies

XX

SQ Sequence 28 BP; 12 A; 6 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 9.1%; Score 20; DB 5; Length 28;

Best Local Similarity 100.0%; Pred. No. 6.3e+03;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 130 CTGGAAGATACGACGACGACGAG 149

DB 9 CTGGAAGATACGACGACGACGAG 28

RESULT 3

ID ABL01061

XX ABL01061 standard; DNA; 50 BP.

AC ABL01061;

XX

DT 05-MAR-2002 (first entry)

XX

DE Human SNP involving a gap oligonucleotide SEQ ID NO:1052.

XX

KW Human; single nucleotide polymorphism; SNP; polymorphism; cytostatic;

KW immunosuppressive; antiinflammatory; neuroprotective; antimicrobial;

KW autoimmune disease; inflammation; cancer; nervous system disease;

KW infection; polymorphic protein; ds.

XX

OS Homo sapiens.

XX

PN WO200138586-A2.

XX

PD 31-MAY-2001.

XX

PP 22-NOV-2000; 2000WO-US032311.

XX

PR 24-NOV-1999; 99US-0167383P.

XX

PA (CURA-) CURAGEN CORP.

XX

PI Shinkets RA, Leach M;

XX

DR WPI; 2001-355949/37.

XX

PT Isolated human nucleic acids comprising one or more single nucleotide

PT polymorphisms, useful for treating a subject suffering from a pathology,

PT e.g. autoimmune diseases, ascribed to the presence of a sequence

PT polymorphism.

XX

PS Claim 1; Page 568; 674pp; English.

XX

CC ABL000010 to ABL01104 represent human nucleic acid oligonucleotides

CC comprising one or more single nucleotide polymorphisms (SNPs). ABB56531

CC to ABB56903 represent human peptides encoded by some of the SNP

CC oligonucleotides. The sequences from the present invention can have

CC immunosuppressive, cytostatic, antiinflammatory, neuroprotective and

CC antimicrobial activities. Nucleic acids, polypeptides, oligonucleotides

CC and antibodies from the present invention can be used for treating a

CC subject suffering from, at risk for, or suspected of, suffering from a

CC pathology ascribed to the presence of a sequence polymorphism. The

CC pathology may be autoimmune diseases, inflammation, cancer, diseases of

CC the nervous system, and infection by pathogenic microorganisms. The SNPs

CC are also useful for determining which forms of a characterised

CC polymorphism are present in individuals. The antibodies may be used in

CC the detection, quantitation and/or cellular or tissue localisation of a

CC polymorphic protein (e.g., for use in measuring levels of the polymorphic

CC protein within appropriate physiological samples)

XX

SQ Sequence 50 BP; 14 A; 3 C; 27 G; 6 T; 0 U; 0 Other;

Query Match 9.0%; Score 19.8; DB 5; Length 50;

Best Local Similarity 69.2%; Pred. No. 9.5e+03;
Matches 27; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 9 GAGGAAGCGGAGTGTGACCATCGCGGAGACGAGGTG 47
|||||
Db 1 GAGGAGGAGGAGTGTGAGGAGGAGGAGGAGGAGGATG 39
|||||

RESULT 4
ABV76434/c
ID ABV76434 standard; DNA; 41 BP.
XX AC ABV76434;
XX
XX
XX 20-FEB-2003 (first entry)
XX
XX Human DNA CGG repeat binding protein 10.23 probe, SEQ ID NO:9.
DE DE
XX Human; DNA CGG repeat binding protein 10.23; recombinant production;
KW gene therapy; embryonic development disorder; tumour; cancer; cytostatic;
KW probe; ss.
XX
XX Homo sapiens.
XX
XX CN1343717-A.
PN
XX 10-APR-2002.
XX
XX 19-SEP-2000; 2000CN-00125256.
PF
XX 19-SEP-2000; 2000CN-00125256.
PR
XX (BODE-) BODE GENE DEV CO LTD SHANGHAI.
PA
XX Mao Y, Xie Y;
PI
XX WPI; 2002-548885/59.
DR
XX A novel human DNA CGG-like repeated binder 10.23 polypeptide, useful for
PT treating several diseases e.g. embryo development deformity and tumors.
PT
XX Example 6; Page 22 (Disclosure); 35pp; Chinese.
PS
XX The invention relates to human DNA CGG repeat binding protein 10.23
CC (ABP58472) and nucleic acids encoding it (ABV76428). The protein has a
CC molecular weight of 10.23 kD. The invention also relates to a method for
CC the recombinant production of the protein, an antagonist of the protein,
CC and the use of the protein, gene and antagonist in therapeutic
CC applications. DNA CGG repeat binding protein 10.23 can be used in the
CC treatment of a variety of diseases such as embryonic development
CC disorders and tumours. Sequences ABV76433-ABV76434 represent human DNA
CC CGG repeat binding protein 10.23 probes used in an exemplification of the
CC invention
XX
SQ Sequence 41 BP; 12 A; 11 C; 6 G; 12 T; 0 U; 0 Other;

Query Match 8.8%; Score 19.2; DB 6; Length 41;
Best Local Similarity 67.5%; Pred. No. 1.4e+04;
Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 149 GTGGACACTGATTACACAGCTGAGGTGTTAAGAGCA 188
|||||
Db 40 GTGTAGCATTTGGTTAAAGGTGCACCTTCCTAAGAGCA 1
|||||

RESULT 5
AAH88323/c
ID AAH88323 standard; DNA; 47 BP.
XX AC AAH88323;
XX
XX 26-FEB-2002 (first entry)
DT
XX

DE CNS disorder-related biallelic marker #24 from CRF1 gene.
XX Single nucleotide polymorphism; SNP; biallelic marker; human;
KW central nervous system disorder; CNS; CRF1;
KW corticotrophin releasing factor receptor 1; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FT misc_feature 24
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX
PN WO200151659-A2.
XX
XX 19-JUL-2001.
PD
XX
XX 11-JAN-2001; 2001WO-IB000116.
PF
XX 13-JAN-2000; 2000US-0175854P.
PR
XX (GEST) GENSET.
PA
XX Chu T, Blumenfeld M, Cohen D;
PI
XX WPI; 2001-483085/52.
DR
XX Isolated polynucleotides, useful for genotyping nucleic acids for
PT biallelic markers for the diagnosis of depression, comprises central
PT nervous system disorder related biallelic marker.
XX
PS Claim 1; Page 277; 519pp; English.
XX
XX The present invention relates to biallelic markers derived from human
CC genes involved in central nervous system (CNS) disorders. The present
CC sequence is one such biallelic marker derived from human corticotrophin
CC releasing factor receptor 1 (CRF1) gene. CRF is a hormone released by
CC the hypothalamus and stimulates the release of corticotrophin by the
CC anterior pituitary gland. This marker has a single nucleotide
CC polymorphism (SNP) and is useful in determining the genetic
CC predisposition of individuals to CNS disorders, by identifying the
CC nucleotides at a set of genetic markers in a biological sample, where the
CC markers comprise at least one CNS disorder related marker
XX
SQ Sequence 47 BP; 15 A; 8 C; 14 G; 9 T; 0 U; 1 Other;

Query Match 8.7%; Score 19; DB 4; Length 47;
Best Local Similarity 67.6%; Pred. No. 1.7e+04;
Matches 25; Conservative 1; Mismatches 11; Indels 0; Gaps 0;

QY 170 TGAAGTTGTTAAGACGACACATGCCCTTACAGAC 206
|||||
Db 38 TGTAGATGTTTAAAGCATTCCTGCGCTCTACCCAC 2
|||||

RESULT 6
AAV35018/c
ID AAV35018 standard; DNA; 38 BP.
XX
XX AC AAV35018;
XX
XX 27-AUG-1998 (first entry)
DT
XX Human endothelin-beta 1 receptor PCR primer Vet122.
DE
XX Endothelin beta-1 receptor; ETB-1; screening; signal transduction;
KW agonist; antagonist; vasoconstrictor; vasopressor; cardiogenic shock;
KW pulmonary hypertension; acute myocardial infarct; uraemia; vasculitis;
KW Crohn's disease; ulcerative colitis; sepsis; congestive heart failure;
KW coronary spasm; cyclosporin nephrotoxicity; toxemia; PCR primer; ss.
XX
XX Synthetic.
OS
XX Homo sapiens.

XX PN US5773223-A.
XX PD 30-JUN-1998.
XX PF 02-SEP-1993; 93US-00117361.
XX PR 02-SEP-1993; 93US-00117361.
XX PA (CHIR) CHIRON CORP.
XX PI Shyamala V, Olson PT;
XX DR WPI; 1998-386992/33.
XX PT Screening for modulators of the endothelin B₁ receptor - by measuring
PT effect on signal transduction in cells engineered to express the
PT receptor, potentially useful as agonists and antagonists of endothelin.
XX Example 2; Col 19; 23pp; English.
XX AAV35002-V35021 are primers used to amplify and isolate a novel human
CC endothelin-beta receptor (ETB-1) which corresponds to a decapeptide
CC insert. This sequence is used in a method involving the screening of
CC compounds for their ability to bind to endothelin B₁ (ETB₁) receptor
CC polypeptide and to modulate its signal transduction activity by applying
CC test compound to host cells transformed with DNA encoding ETB-1 and
CC optionally lysing the cells and then measuring signal transduction
CC activity. The method is used to identify agonists and antagonists of
CC endothelin (ET), a known vasoconstrictor/vasopressor agent, associated
CC with cardiogenic shock, pulmonary hypertension, acute myocardial infarct,
CC uraemia, Crohn's disease, ulcerative colitis, sepsis, congestive heart
CC failure, coronary spasm, cyclosporin nephrotoxicity, vasculitis and
CC toxemia in pregnancy, and is also present at elevated levels after
CC orthotopic liver transplantation and major abdominal surgery
XX SQ Sequence 38 BP; 9 A; 7 C; 5 G; 17 T; 0 U; 0 Other;
Query Match 8.6%; Score 18.8; DB 2; Length 38;
Best Local Similarity 68.4%; Pred. No. 1.9e+04;
Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
QY 65 GCAATTAACCTGCTCTGAGATCACTGTAGATTGTA 102
Db 38 GCAACAGCTCGATATCTGAGATTAATAAGATTGTA 1
RESULT 7
AAZ67349
ID AAZ67349 standard; DNA; 47 BP.
XX AC AAZ67349;
XX DT 10-SEP-2001 (first entry)
XX DE Human map-related biallelic marker SEQ ID NO:1696.
XX KW Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation; diagnosis;
KW single nucleotide polymorphism; SNP; ds.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
FH variation replace(24,G)
FT /*tag= a
FT /standard_name= "single nucleotide polymorphism"
XX PN WO9954500-A2.
XX PD 28-OCT-1999.
XX

PF 21-APR-1999; 99WO-IB000822.
XX PR 21-APR-1998; 98US-0082614P.
PR 23-NOV-1998; 98US-0109732P.
XX PA (GEST) GENSET.
XX PI Cohen D, Blumenfeld M, Chumakov I;
XX DR WPI; 2000-013267/01.
XX PT Novel biallelic markers used to construct a high density disequilibrium
PT map of the human genome.
XX PS Claim 1; Page 592; 2745pp; English.
XX CC AAZ65654 to AAZ69578 represent human biallelic markers from the present
CC invention, which contain a polymorphic base at position 24 of their
CC nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
CC primers for the biallelic markers. The biallelic markers of the invention
CC have a variety of uses: they can be used for high density mapping of the
CC human genome, and in complex association studies and haplotyping studies
CC which are useful in determining the genetic basis for disease states.
CC Compositions and methods of the invention can also be useful for the
CC identification of the targets for the development of pharmaceutical
CC agents and diagnostic methods, as well as the characterisation of the
CC differential efficacious responses to and side effects from
CC pharmaceutical agents acting on a disease as well as other treatment.
CC N.B. The SEQ ID NOS 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and
CC 3367, are not actually given a sequence in the Sequence Listing from the
CC present invention
XX SQ Sequence 47 BP; 19 A; 8 C; 11 G; 9 T; 0 U; 0 Other;
Query Match 8.6%; Score 18.8; DB 3; Length 47;
Best Local Similarity 63.0%; Pred. No. 2e+04;
Matches 29; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 140 CCAGCACCACTGGACAGTCAATTAACAAGCTGAAGTGTGTAAGAA 185
Db 1 CTACAGAACTGGATCATGAATCAACAAATGAAGGAGGCTTTGCA 46
RESULT 8
AAT11362/c
ID AAT11362 standard; DNA; 38 BP.
XX AC AAT11362;
XX DT 07-JUL-1996 (first entry)
XX DE Class C tet operator sequence.
XX KW Tet repressor; Herpes simplex virus; HSV; virion protein 16; VP16;
KW fusion protein; gene expression; regulation; inhibition; activation;
KW transcription; ds.
XX OS Synthetic.
XX PN WO9601313-A1.
XX PD 18-JAN-1996.
XX PF 29-JUN-1995; 95WO-US008179.
XX PR 01-JUL-1994; 94US-00270637.
PR 15-JUL-1994; 94US-00275876.
PR 03-FEB-1995; 95US-00383754.
PR 07-JUN-1995; 95US-00486814.
XX PA (BUJA/) BUJARD H.
PA (GOSS/) GOSSSEN M.
XX

PI Bujard H, Gossen M;
 XX WPI; 1996-087666/09.
 XX
 XX New tetracycline-regulated transcription modulators - comprising fusion
 PT proteins which bind to tet operator sequences to activate or inhibit
 PT transcription.
 XX
 XX Disclosure; Page 76; 112pp; English.
 XX
 XX Fusion proteins comprising a first polypeptide which binds to a tet
 CC operator sequence in the presence of tetracycline or a tetracycline
 CC analogue, operatively linked to a second polypeptide which either
 CC activates or inhibits transcription in eukaryotic cells may be used to
 CC activate or inhibit transcription. Such proteins may be used to regulate
 CC gene expression in cells and may be particularly useful for gene therapy
 CC and for expression of gene products in transgenic organisms. Induction of
 CC gene expression is rapid, efficient and strong, typically 1000-2000 fold.
 CC The inducing agent does not cause pleiotropic effects or cytotoxicity in
 CC eukaryotic cells. The sequences of the different classes of tet operator
 CC sequences are described in AAT11360-64)
 XX
 SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;
 Query Match 8.4%; Score 18.4; DB 2; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 OY 148 AGTGGACAGTGATTAACAAGCTGAAGTGTGTTAAG 183
 DB 38 AATTTAACTGTGATAAACTAGCTTATCGATGATAAG 3
 RESULT 9
 AAT45713/C
 ID AAT45713 standard; DNA; 38 BP.
 XX
 AC AAT45713;
 DT 18-MAR-1997 (first entry)
 XX
 DE Class C Tet operator sequence.
 XX
 KW Tet; tetracycline; Tc; operator; transcription; regulation; inducible;
 KW repressor; gene expression; therapy; transgenic animal; disease model;
 KW ss.
 XX
 OS Escherichia coli.
 XX
 PN WO9640892-A1.
 XX
 PD 19-DEC-1996.
 XX
 PF 06-JUN-1996; 96WO-US009049.
 XX
 PR 07-JUN-1995; 95US-00485971.
 XX
 PA (BADI) BASF AG.
 XX
 PI Bujard H, Gossen M, Hillen W, Helbl V, Schnappinger D;
 XX WPI; 1997-052305/05.
 XX
 DR Nucleic acid encoding tetracycline-inducible transcription regulatory
 PT fusion protein - comprising modified tetracycline repressor able to bind
 PT mutant tet operator, fused to transcription regulator, useful for
 PT modulating eukaryotic gene expression.
 XX
 PS Disclosure; Page 82; 117pp; English.
 XX
 CC AAT45712-T45715 are class A, C, D and E tet operator sequences,
 CC respectively. The main invention of the specification concerns modified
 CC Tet repressor (TetR) proteins that bind to modified class B tet operator,
 CC but also any other class of tet operator may be used. Modified class B
 CC tet operators were modified at either posn. +4 or +6 by cytosine
 CC substitutions to give tetO-4C and tetO-6C (see AAT45711 and AAT48478).
 CC The tet operator sequences were used as targets for modified versions of
 CC the Tet repressor (TetR). Modified TetR proteins can be fused to a
 CC transcription regulatory polypeptide and used to control transcription of
 CC a tetO-4C or tetO-6C linked gene. Nucleic acid encoding a fusion protein,
 CC as above, may be introduced into a cell and transcription of the protein
 CC can be controlled by altering the concn. of tetracycline (or an analogue)
 CC in the cell. This ability to modulate gene expression in a predictable
 CC way is very useful in gene therapy and for recombinant protein prodn. in
 CC cultured cells or transgenic animals. The tetracycline (Tc)-inducible
 CC system is also useful for the prodn. of transgenic animal models for the
 CC study of disease and also for the study of gene function e.g. during
 CC differentiation. The Tc-inducible system allows rapid activation of gene
 CC transcription without cellular toxicity, high concns. of inducer are not
 CC required
 XX
 SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;
 Query Match 8.4%; Score 18.4; DB 2; Length 38;
 Best Local Similarity 69.4%; Pred. No. 2.6e+04;
 Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 OY 148 AGTGGACAGTGATTAACAAGCTGAAGTGTGTTAAG 183
 DB 38 AATTTAACTGTGATAAACTAGCTTATCGATGATAAG 3
 RESULT 10
 AAV60085/C
 ID AAV60085 standard; DNA; 38 BP.
 XX
 AC AAV60085;
 XX
 DT 25-MAR-2003 (revised)
 DT 04-DEC-1998 (first entry)
 XX
 DE Class C tet operator sequence.
 XX
 KW Tet repressor; tetracycline; regulation; expression;
 KW Tet operator-linked gene; tet operator; ds.
 XX
 OS Synthetic.
 XX
 PN US5814618-A.
 XX
 PD 29-SEP-1998.
 XX
 PF 07-JUN-1995; 95US-00485978.
 XX
 PR 14-JUN-1993; 93US-00076327.
 PR 14-JUN-1993; 93US-00076726.
 PR 14-JUN-1994; 94US-00260452.
 PR 01-JUL-1994; 94US-00270637.
 PR 15-JUL-1994; 94US-00275876.
 PR 03-FEB-1995; 95US-00383754.
 XX
 PA (KNOL) KNOLL AG.
 PA (BADI) BASF AG.
 XX
 PI Gossen M, Bujard H;
 XX WPI; 1998-541795/46.
 XX
 DR Tetracycline based regulation of gene expression - uses a tetracycline
 PT operator sequence joined to a gene of interest, the gene of interest
 PT being induced in the presence, but not absence of the antibiotic.
 XX
 PS Disclosure; Fig 5; 63pp; English.
 XX
 CC AAV60083-87 represent tet operator sequences of different classes. They
 CC are used in the course of the invention. The specification describes a

CC method for regulating expression of a Tet (tetracycline) operator-linked
CC gene in a cell of a subject. The method comprises introducing into the
CC cell a nucleic acid encoding a fusion protein which inhibits
CC transcription in eukaryotic cells, the fusion protein comprising a
CC polypeptide which binds to a Tet operator sequence, operatively linked to
CC heterologous second polypeptide which inhibits transcription in
CC eukaryotic cells and modulating the concentration of a tetracycline
CC (analogue) in the subject. The method is used for the regulation of gene
CC expression system, using tetracycline (analogues). The system enables a
CC gene coupled to the system to be induced in the presence of Tet and then
CC stopped when Tet is removed. (Updated on 25-MAR-2003 to correct PR
CC field.)
XX
SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 2; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.6e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAGCTGAAGTTGTTAAG 183
DB 38 AATTAACTGCGATAAACTAGCTTATCGATGATAAG 3

RESULT 11
AAZ60051/c
ID AAZ60051 standard; DNA; 38 BP.
AC AAZ60051;
XX
DT 20-MAR-2003 (revised)
DT 04-AUG-1999 (first entry)
XX
DE Class C tet operator sequence.
XX
KW Transgenic mice; transgene; tet operator-linked gene; tetracycline;
KW mouse-active transcriptional regulatory element; mutant Tet repressor;
KW gene therapy; genetic disease; acquired disease; cancer; viral disease;
KW vaccination; rheumatoid arthritis; hypopituitarism; wound healing;
KW tissue regeneration; cancer; benign prostatic hypertrophy; hemophilia;
KW erythrocytopenia; artherosclerosis; liver disease; Alzheimer's disease;
KW Parkinson's disease; human disease model; ds.
XX
OS Unidentified.
XX
XX
XX US5912411-A.
XX
XX
PD 15-JUN-1999.
XX
XX
PF 07-JUN-1995; 95US-00487472.
XX
XX
PR 14-JUN-1993; 93US-00076327.
PR 14-JUN-1993; 93US-00076726.
PR 14-JUN-1994; 94US-00260452.
PR 01-JUL-1994; 94US-00270637.
PR 15-JUL-1994; 94US-00275876.
PR 03-FEB-1995; 95US-00383754.
XX
XX {UYHE-} UNIV HEIDELBERG.
PA
XX Bujard H, Gossen M;
XX
XX WPI; 1999-357232/30.
XX
XX
PT Transgenic mice with inducible transgene activity useful for in vitro and
PT in vivo protein production.
XX
PS Disclosure; Fig 5; 63pp; English.
XX
XX The specification describes transgenic mice which have a transgene and a
XX tet operator-linked gene integrated in the genome. The transgene
XX comprises a mouse-active transcriptional regulatory element linked to a
XX polynucleotide sequence that encodes a fusion protein which activates

CC transcription of the tet operator-linked gene. The fusion protein
CC comprises a mutated Tet repressor that binds a tet operator sequence in
CC the presence of tetracycline (Tc) or a Tc analogue, linked to a
CC polypeptide that activates transcription in eukaryotic cells. The
CC transgenic system may be used for gene therapy to treat genes involved in
CC genetic or acquired diseases. Gene therapy may be used to treat cancer,
CC viral diseases, for vaccination, and to provide (Tc induced) regulated
CC doses of a product (e.g. for the treatment or regulation of rheumatoid
CC arthritis, hypopituitarism, wound healing and tissue regeneration,
CC cancer, benign prostatic hypertrophy, hemophilia, erythrocytopenia,
CC atherosclerosis and liver disease, Alzheimer's disease, and Parkinson's
CC disease). The system may also be used to produce proteins in vivo (e.g.
CC using mammalian, yeast or fungal cells) or in vitro (e.g. transgenic farm
CC animals), to produce animal models of human disease, or to produce a
CC stable cell line for gene cloning. The present sequence is used to
CC construct the transgenes of the invention. (Updated on 20-MAR-2003 to
CC correct PF field.)
XX
SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 2; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.6e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAGCTGAAGTTGTTAAG 183
DB 38 AATTAACTGCGATAAACTAGCTTATCGATGATAAG 3

RESULT 12
AAZ56132/c
ID AAZ56132 standard; DNA; 38 BP.
AC AAZ56132;
XX
DT 27-MAR-2000 (first entry)
XX
DE Class C tetracycline operator sequence.
XX
KW Class C tetracycline operator; gene expression regulation; cancer;
KW gene therapy; arthritis; wound healing; tissue regeneration; ds.
XX
OS Escherichia coli.
XX
XX US6004941-A.
XX
PD 21-DEC-1999.
XX
XX
PF 07-JUN-1995; 95US-00485740.
XX
XX
PR 14-JUN-1993; 93US-00076327.
PR 14-JUN-1993; 93US-00076726.
PR 14-JUN-1994; 94US-00260452.
PR 01-JUL-1994; 94US-00270637.
PR 15-JUL-1994; 94US-00275876.
PR 03-FEB-1995; 95US-00383754.
XX
XX {BADI } BASF AG.
PA
PA {BADI } BASF BIORESEARCH CORP.
PA {KNOL } KNOLL AG.
XX
XX Gossen M, Bujard H;
XX
XX WPI; 2000-085798/07.
XX
XX
PT Regulation of gene expression in cells, useful for gene therapy of
PT diseases, production of proteins in vitro and in vivo and production of
PT stable cell lines for cloning.
XX
PS Disclosure; Fig 5; 64pp; English.
XX
XX This is a class C tetracycline operator sequence. The operator sequence
XX can be used in a method for the regulation of gene expression in a cell,
CC

CC using tetracycline-regulated fusion proteins. The method involves
CC obtaining a cell from a subject, and introducing a nucleic acid molecule
CC into the cell, which operatively links a gene to at least one
CC tetracycline (tet) operator sequence. A second nucleic acid molecule is
CC then introduced which encodes a fusion protein, where the fusion protein
CC comprises a first polypeptide which binds to a tet operator sequence in
CC the presence of tetracycline, or its analogue, operatively linked to a
CC second polypeptide which activates transcription in eukaryotic cells to
CC form a modified cell. The modified cell can then be administered to the
CC subject, and the concentration of tetracycline (or and analogue) can be
CC regulated so that the expression of the gene is regulated. The method is
CC useful for gene therapy of diseases such as cancer and arthritis or for
CC tissue regeneration and wound healing. The method may also be useful for
CC the production of proteins in vitro and in vivo and for the production of
CC stable cell lines for cloning
XX
SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 3; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.6e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAACAAGCTGAAGTTGTGAAG 183

Db 38 AATTAACTGTGATAAAGCTATCGATGATAAG 3

RESULT 13

AAAC61972/c
ID AAC61972 standard; DNA; 38 BP.

AC AAC61972;

DT 06-MAR-2001 (first entry)

DE Nucleotide sequence of a class C tet operator.

XX Tetracycline; gene therapy; cancer; viral disease; rheumatoid arthritis;
KW hypopituitarism; wound healing; angiogenesis inhibitor; transgene;
KW immune response; tet operator; ds.

XX Unidentified.

XX US6136954-A.

XX 24-OCT-2000.

XX 28-SEP-1998; 98US-00162184.

XX 14-JUN-1993; 93US-00076327.

XX 14-JUN-1993; 93US-00076726.

XX 14-JUN-1994; 94US-00260452.

XX 01-JUL-1994; 94US-00270637.

XX 15-JUL-1994; 94US-00275876.

XX 03-FEB-1995; 95US-00383754.

XX 07-JUN-1995; 95US-00485978.

XX (KNOL) KNOLL AG.

PA (BADI) BASF AG.

XX Gossen M, Bujard H;

XX WPI; 2001-040240/05.

XX New tetracycline-inducible transcriptional activator fusion proteins

XX useful for regulating the level of gene expression or in gene therapy for

XX treating genetic or acquired diseases, e.g. as cancer, viral diseases, or

XX wound healing.

XX Disclosure; Fig 5; 68pp; English.

CC comprises a polypeptide that binds to a test operator sequence in the
CC presence of tetracycline or tetracycline analogues, operatively linked to
CC a second polypeptide which activates transcription in eukaryotic cells.
CC The methods are used to turn gene expression on and off, or regulate the
CC level of gene expression. The system may be used in the study of cellular
CC development and differentiation in eukaryotic cells, plants and animals,
CC to regulate expression of site-specific recombinases (e.g. CRE or FLP) to
CC allow for irreversible modification of the genotype of a transgenic
CC organism under controlled conditions at a particular stage of
CC development. The system may further be used in gene therapy, in treating
CC either genetic or acquired diseases, such as cancer, viral diseases,
CC rheumatoid arthritis, hypopituitarism, or wound healing, and to
CC conditionally express suicide gene in cells. The regulatory system is
CC also used to express angiogenesis inhibitors from within a tumour via a
CC transgene regulated by this system, and avoid or inhibit an immune
CC response in subjects receiving treatments. The present sequence
CC represents a tet operator. It is used in the course of the invention
XX
SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 4; Length 38;

Best Local Similarity 69.4%; Pred. No. 2.6e+04;

Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAACAAGCTGAAGTTGTGAAG 183

Db 38 AATTAACTGTGATAAAGCTATCGATGATAAG 3

RESULT 14

AAH47637/c

ID AAH47637 standard; DNA; 38 BP.

AC AAH47637;

DT 30-NOV-2001 (first entry)

DE Nucleotide sequence of a class C tet operator.

XX Fusion protein; tet operator; tetracycline; gene therapy; anti-cancer;
KW rheumatoid arthritis; hypopituitarism; wound healing; hemophilia;
KW diabetes; Alzheimer's disease; tet repressor; ds.

XX Unidentified.

XX US6271348-B1.

XX 07-AUG-2001.

XX 24-JAN-2000; 2000US-00489777.

XX 14-JUN-1993; 93US-00076726.

XX 19-JUN-1993; 93US-00076327.

XX 14-JUN-1994; 94US-00260452.

XX 01-JUL-1994; 94US-00270637.

XX 15-JUL-1994; 94US-00275876.

XX 03-FEB-1995; 95US-00383754.

XX 07-JUN-1995; 95US-00485978.

XX 28-SEP-1998; 98US-00162184.

XX (BADI) BASF AG.

XX (KNOL) KNOLL AG.

XX Bujard H, Gossen M;

XX WPI; 2001-556625/62.

XX Fusion protein for inhibiting transcription in eukaryotic cells useful in

XX gene therapy applications comprises a first polypeptide, which binds to

XX tet operator sequences, operatively linked to a heterologous second

XX polypeptide.

XX Disclosure; Fig 5; 69pp; English.

XX The invention relates to a fusion protein that comprises a first
CC polypeptide which binds to a tet operator sequence, operatively linked to
CC a heterologous second polypeptide, which inhibits transcription in
CC eukaryotic cells. The fusion proteins are tetracycline-responsive and are
CC useful for regulation of transcription in eukaryotic cells and animals.
CC The tetracycline (Tc)-controlled regulatory system is useful in various
CC applications in gene therapy, such as in the treatment of various disease
CC conditions e.g. rheumatoid arthritis, hypopituitarism, wound healing and
CC tissue regeneration, anticancer treatments, benign prostatic hypertrophy,
CC hemophilia, diabetes and arteriosclerosis. They are also useful for bone
CC marrow support therapy, treatment of central nervous system disorders
CC e.g. Alzheimer's disease, Parkinson's disease (see AAH47628 for a
CC detailed description of the uses). The present sequence represents the
CC nucleotide sequence of a class C tet operator
XX
SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 4; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.6e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAACACAGCTGAAGCTTGTAAAG 183
Db 38 AATTAACTGTGATAAAGCTTATCGATGATAAG 3

RESULT 15
AAH25578/C
ID AAH25578 standard; DNA; 38 BP.
XX
XX
AC AAH25578;
DT 05-SEP-2001 (first entry)
XX
DE Nucleotide sequence of a tet operator, class A.
XX
KW Transgenic plant; transgene; tet operator-linked gene; Tet repressor;
KW tetracycline-regulated transcriptional regulatory system; tet operator;
KW tetracycline; ds.
XX
OS Unidentified.
XX
XX US6242667-B1.
XX
XX 05-JUN-2001.
XX
XX 28-SEP-1998; 98US-00161902.
XX
XX 14-JUN-1993; 93US-00076327.
XX 14-JUN-1993; 93US-00076726.
XX 14-JUN-1994; 94US-00260452.
XX 01-JUL-1994; 94US-00270637.
XX 15-JUL-1994; 94US-00275876.
XX 03-FEB-1995; 95US-00383754.
XX 07-JUN-1995; 95US-00487472.
XX
XX (BADI) BASF AG.
XX (KNOL) KNOLL AG.
XX
XX Bujard H, Gossen M;
XX
XX WPI; 2001-396837/42.
XX
XX Transgenic plant for regulating the expression of genes, comprises a
XX transgene integrated into the genome and a tet operator-linked gene in
XX the genome.
XX
XX Disclosure; Fig 5; 65pp; English.
XX
XX The specification describes a transgenic plant with a tetracycline-
XX regulated transcriptional regulatory system. The transgenic plants have a
XX transgene and a tet operator-linked gene integrated in the genome, which

CC confers a detectable and functional phenotype on the plant when
CC expressed. The transgene comprises a transcriptional regulatory element
CC functional in cells of the plant operatively linked to a polynucleotide
CC sequence encoding a fusion protein that activates transcription of the
CC tet operator linked gene. The fusion protein comprises a first
CC polypeptide that is a mutated Tet repressor that binds to a tet operator
CC sequence in the presence of tetracycline or its analogue, operatively
CC linked to a second polypeptide that activates transcription in eukaryotic
CC cells. In the presence of tetracycline, the fusion protein binds to the
CC tet operator-linked gene and activates transcription of the tet operator-
CC linked gene such that it is expressed at a level sufficient to confer the
CC detectable and functional phenotype on the plant. The level of expression
CC of the tet-operator gene can be downmodulated by depleting tetracycline
CC from the plant. The transgene can be used to regulate the expression of
CC genes in the plant. The transgenic plant can be used to analyse the
CC functions of cellular proteins. The present sequence represents a tet
CC operator, which can be used to produce transgenic plants of the invention
XX
SQ Sequence 38 BP; 13 A; 6 C; 5 G; 14 T; 0 U; 0 Other;

Query Match 8.4%; Score 18.4; DB 5; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.6e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAACACAGCTGAAGCTTGTAAAG 183
Db 38 AATTAACTGTGATAAAGCTTATCGATGATAAG 3

Search completed: May 26, 2004, 05:53:43
Job time : 188.951 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:16:49 ; Search time 42.3039 Seconds

(without alignments)
2872.886 Million cell updates/sec

Title: US-10-048-046-1_COPY_181_399

Perfect score: 219

Sequence: 1 gtctctcgaggagcgga.....tacagactgggagatgcac 219

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 277475446 residues

Total number of hits satisfying chosen parameters: 839752

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.*

1: /cgn2_6/prodata/2/ina/5A_COMB.seq.*

2: /cgn2_6/prodata/2/ina/5B_COMB.seq.*

3: /cgn2_6/prodata/2/ina/6A_COMB.seq.*

4: /cgn2_6/prodata/2/ina/6B_COMB.seq.*

5: /cgn2_6/prodata/2/ina/PCTUS_COMB.seq.*

6: /cgn2_6/prodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	9.1	47	4	US-09-641-638-687
2	18.8	8.6	38	1	US-08-117-361C-23
3	18.4	8.4	38	1	US-08-485-971-13
4	18.4	8.4	38	1	US-08-275-876-13
5	18.4	8.4	38	1	US-08-383-754-13
6	18.4	8.4	38	1	US-08-485-978-13
7	18.4	8.4	38	2	US-08-486-814-13
8	18.4	8.4	38	2	US-08-487-472-13
9	18.4	8.4	38	3	US-08-485-740-13
10	18.4	8.4	38	3	US-09-162-184-13
11	18.4	8.4	38	3	US-09-161-902-13
12	18.4	8.4	38	3	US-09-489-777A-13
13	18.4	8.4	38	5	PCT-US95-08179-13
14	18.4	8.4	46	1	US-08-242-409-12
15	18.4	8.4	46	5	PCT-US95-05835-12
16	18.4	8.4	47	4	US-09-641-638-1120
17	18.4	8.4	47	4	US-09-422-978-1696
18	17.8	8.1	49	1	US-08-171-389-54
19	17.8	8.1	49	2	US-08-123-936-54
20	17.8	8.1	49	2	US-08-475-228A-54
21	17.8	8.1	49	3	US-08-482-080A-54
22	17.8	8.1	49	4	US-09-354-947-54
23	17.8	8.1	49	5	PCT-US93-12388-54
24	17.4	7.9	47	4	US-09-671-317-553
25	17.4	7.9	50	1	US-08-171-389-546
26	17.4	7.9	50	1	US-08-123-936-546
27	17.4	7.9	50	2	US-08-475-228A-546

28	17.4	7.9	50	3	US-08-482-080A-546	Sequence 546, App
29	17.4	7.9	50	4	US-09-354-947-546	Sequence 546, App
30	17.4	7.9	50	5	PCT-US93-12388-546	Sequence 546, App
31	17.2	7.9	38	4	US-09-593-012-218	Sequence 218, App
32	17.2	7.9	41	1	US-07-931-473B-62	Sequence 62, Appl
33	17.2	7.9	41	1	US-07-714-131C-62	Sequence 62, Appl
34	17.2	7.9	41	1	US-08-412-110-62	Sequence 62, Appl
35	17.2	7.9	41	1	US-08-409-442A-62	Sequence 62, Appl
36	17.2	7.9	41	2	US-08-469-609A-62	Sequence 62, Appl
37	17.2	7.9	41	3	US-09-143-190-62	Sequence 62, Appl
38	17.2	7.9	41	4	US-09-502-344-62	Sequence 62, Appl
39	17.2	7.9	42	1	US-08-475-063-38	Sequence 38, Appl
40	17.2	7.9	42	1	US-08-207-792-38	Sequence 106, App
41	17.2	7.9	44	1	US-07-931-473B-106	Sequence 106, App
42	17.2	7.9	44	1	US-07-714-131C-106	Sequence 106, App
43	17.2	7.9	44	1	US-08-412-110-106	Sequence 106, App
44	17.2	7.9	44	1	US-08-409-442A-106	Sequence 106, App
45	17.2	7.9	44	2	US-08-469-609A-106	Sequence 106, App

ALIGNMENTS

RESULT 1

US-09-641-638-687

; Sequence 687, Application US/09641638

; Patent No. 6432648

; GENERAL INFORMATION:

; APPLICANT: Blumenfeld, Marta

; APPLICANT: Bougueleret, Lydie

; APPLICANT: Chumakov, Ilya

; APPLICANT: Cohen, Annick

; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING

; FILE REFERENCE: GENSET.051CPI

; CURRENT APPLICATION NUMBER: US/09/641,638

; PRIOR FILING DATE: 2000-08-16

; PRIOR APPLICATION NUMBER: US 09/502,330

; PRIOR FILING DATE: 2000-02-11

; PRIOR APPLICATION NUMBER: US 60/133,200

; PRIOR FILING DATE: 1999-05-07

; PRIOR APPLICATION NUMBER: US 09/275,267

; PRIOR FILING DATE: 1999-03-23

; PRIOR APPLICATION NUMBER: US 60/119,917

; PRIOR FILING DATE: 1999-02-12

; NUMBER OF SEQ ID NOS: 1304

; SOFTWARE: Patent.pm

; SEQ ID NO 687

; LENGTH: 47

; TYPE: DNA

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: allele

; LOCATION: 24

; OTHER INFORMATION: 10-347-271 : polymorphic base A or T

US-09-641-638-687

Query Match 9.1%; Score 20; DB 4; Length 47;
Best Local Similarity 63.0%; Pred. No. 7.2e+02;
Matches 29; Conservative 1; Mismatches 16; Indels 0; Gaps 0;

QY 50 ACCCTTCTCTCCCGCAATAACTGCTCTCTGGAGATCACTGTAG 95

DB 2 ACCCTTCTCTCTCCCGCAATAACTGCTCTCTGGAGATCACTGTAG 47

RESULT 2

US-08-117-361C-23/c

; Sequence 23, Application US/08117361C

; Patent No. 5773223

; GENERAL INFORMATION:

; APPLICANT: Venkatakrishna, Shyamala

; APPLICANT: Tekamp-Olson, Patricia

;; TITLE OF INVENTION: Endothelin B1 (ETb1) Receptor Polypeptide
;; TITLE OF INVENTION: Compositions, Methods, and Uses Thereof
;; NUMBER OF SEQUENCES: 27
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Chiron Corporation
;; STREET: 4560 Horton Street
;; CITY: Emeryville
;; STATE: California
;; COUNTRY: USA
;; ZIP: 946087
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: Patent in Release #1.0, Version #1.25 &
;; SOFTWARE: Word 5.0
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/117,361C
;; FILING DATE:
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Chung, Ling-Fong
;; REGISTRATION NUMBER: 36,482
;; REFERENCE/DOCKET NUMBER: 0945.001
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (510) 923-2704
;; TELEFAX: (510) 655-3542
;; INFORMATION FOR SEQ ID NO: 23:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 38 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; US-08-117-361C-23

Query Match 8.6%; Score 18.8; DB 1; Length 38;
Best Local Similarity 68.4%; Pred. No. 1.7e+03;
Matches 26; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 65 GCATATAACTGGTCTCTGGAGATCACTGTAGAAATGTA 102
DB 38 GCACAGCTCGATATCTGACGATTAATAAGAAATGTA 1

RESULT 3
US-08-485-971-13/c
; Sequence 13, Application US/08485971
; Patent No. 5589362
; GENERAL INFORMATION:
; APPLICANT: Bujard, Hermann
; APPLICANT: Gossen, Manfred
; APPLICANT: Hillen, Wolfgang
; APPLICANT: Helbl, Vera
; APPLICANT: Schnappinger, Dirk
; TITLE OF INVENTION: Tetracycline-Regulated Transcriptional
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,971
; FILING DATE:
; CLASSIFICATION: 435

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/383,754
;; FILING DATE: 03-FEB-1995
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/270,637
;; FILING DATE: 01-JULY-1994
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/360,452
;; FILING DATE: 14-JUNE-1994
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/076,327
;; FILING DATE: 14-JUNE-1993
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: US 08/076,726
;; FILING DATE: 14-JUNE-1993
;; CLASSIFICATION: 435
;; ATTORNEY/AGENT INFORMATION:
;; NAME: DeConti, Giulio A. Jr.
;; REGISTRATION NUMBER: 31,503
;; REFERENCE/DOCKET NUMBER: BEI-009CP7
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617)227-7400
;; TELEFAX: (617)227-5941
;; INFORMATION FOR SEQ ID NO: 13:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 38 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: double
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA
;; US-08-485-971-13

Query Match 8.4%; Score 18.4; DB 1; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 ACTGGAACAGTGATTAAACAAGCTGAAGTGTGTTAAG 183
DB 38 AATTTAACTGTGATAAAGTAGCTTATCGATGATGAAG 3

RESULT 4
US-08-275-876-13/c
; Sequence 13, Application US/08275876
; Patent No. 5654168
; GENERAL INFORMATION:
; APPLICANT: Bujard, Hermann
; APPLICANT: Gossen, Manfred
; TITLE OF INVENTION: Tetracycline-Inducible Transcriptional
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/275,876
; FILING DATE:
; CLASSIFICATION: 436
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US
; FILING DATE: 01-JULY-94

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/ CLASSIFICATION: 436
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DeConti, Giulio A. Jr.
/ REGISTRATION NUMBER: 31,503
/ REFERENCE/DOCKET NUMBER: BBI-009CP2
/ TELEPHONE: (617)227-7400
/ TELECOMMUNICATION INFORMATION:
/ TELEFAX: (617)227-5941
/ INFORMATION FOR SEQ ID NO: 13:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 38 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA (genomic)
/ US-08-275-876-13

Query Match      8.4%; Score 18.4; DB 1; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAAGCTGAAGCTGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 5
US-08-383-754-13/c
/ Sequence 13, Application US/08383754
/ Patent No. 5789156
/ GENERAL INFORMATION:
/ APPLICANT: Bujard, Hermann
/ APPLICANT: Gossen, Manfred
/ TITLE OF INVENTION: Tetracycline-Regulated Transcriptional
/ NUMBER OF SEQUENCES: 28
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LAHIVE & COCKFIELD
/ STREET: 60 State Street, suite 510
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02109-1875
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: ASCII Text
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/383,754
/ FILING DATE:
/ CLASSIFICATION: 436
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/275,876
/ FILING DATE: 15-JULY-94
/ CLASSIFICATION: 436
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/270,637
/ FILING DATE: 01-JULY-94
/ CLASSIFICATION: 436
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/260,452
/ FILING DATE: 14-JUNE-94
/ CLASSIFICATION: 436
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/076,327
/ FILING DATE: 14-JUNE-93
/ CLASSIFICATION: 436
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/076,726
/ FILING DATE: 14-JUNE-93
/ CLASSIFICATION: 436
/ ATTORNEY/AGENT INFORMATION:

NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-009CP2
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-383-754-13

Query Match      8.4%; Score 18.4; DB 1; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAAGCTGAAGCTGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 6
US-08-485-978-13/c
/ Sequence 13, Application US/08485978
/ Patent No. 5814618
/ GENERAL INFORMATION:
/ APPLICANT: Bujard, Hermann
/ APPLICANT: Gossen, Manfred
/ TITLE OF INVENTION: Methods for Regulating Gene Expression
/ NUMBER OF SEQUENCES: 28
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: LAHIVE & COCKFIELD
/ STREET: 60 State Street, Suite 510
/ CITY: Boston
/ STATE: Massachusetts
/ COUNTRY: USA
/ ZIP: 02109-1875
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: ASCII Text
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/485,978
/ FILING DATE:
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/383,754
/ FILING DATE: 03-FEB-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/275,876
/ FILING DATE: 15-JULY-1994
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/270,637
/ FILING DATE: 01-JULY-1994
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/260,452
/ FILING DATE: 14-JUNE-1994
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/076,327
/ FILING DATE: 14-JUNE-1993
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 08/076,726
/ FILING DATE: 14-JUNE-1993
/ CLASSIFICATION: 435
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ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-009CP6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-485-978-13

Query Match 8.4%; Score 18.4; DB 1; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAAACAAGCTGAAGTTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 7

US-08-486-814-13/c
Sequence 13, Application US/08486814
Patent No. 5866755
GENERAL INFORMATION:
APPLICANT: Bujard, Hermann
APPLICANT: Gossen, Manfred
TITLE OF INVENTION: Animals Transgenic for a Tetracycline-
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486.814
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/383,754
FILING DATE: 03-FEB-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/275,876
FILING DATE: 15-JULY-1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/270,637
FILING DATE: 01-JULY-1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,452
FILING DATE: 14-JUNE-1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/076,327
FILING DATE: 14-JUNE-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/076,726
FILING DATE: 14-JUNE-1993

Controlled Transcr

CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-009CP4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-486-814-13

Query Match 8.4%; Score 18.4; DB 2; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAAACAAGCTGAAGTTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 8

US-08-487-472-13/c
Sequence 13, Application US/08487472
Patent No. 5912411
GENERAL INFORMATION:
APPLICANT: Bujard, Hermann
APPLICANT: Gossen, Manfred
TITLE OF INVENTION: Animal Transgenic for a Tetracycline- Inducible Transcription
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,472
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/383,754
FILING DATE: 03-FEB-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/275,876
FILING DATE: 15-JULY-1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/270,637
FILING DATE: 01-JULY-94
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,452
FILING DATE: 14-JUNE-1994
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/076,327
FILING DATE: 14-JUNE-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/076,726
FILING DATE: 14-JUNE-1993

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/ FILING DATE: 14-JUNE-1993
/ CLASSIFICATION: 800
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DeConti, Giulio A. Jr.
/ REGISTRATION NUMBER: 31,503
/ REFERENCE/DOCKET NUMBER: BBI-009CP3
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617)227-7400
/ TELEFAX: (617)227-5941
/ INFORMATION FOR SEQ ID NO: 13:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 38 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ US-08-487-472-13

Query Match      8.4%; Score 18.4; DB 2; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAAGCTGAAGTGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 9
US-08-485-740-13/c
; Sequence 13, Application US/08485740
; Patent No. 6004941
; GENERAL INFORMATION:
; APPLICANT: Bujard, Hermann
; APPLICANT: Gossen, Manfred
; TITLE OF INVENTION: Methods for Regulating Gene Expression
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/485,740
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/383,754
; FILING DATE: 03-FEB-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/275,876
; FILING DATE: 15-JULY-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/270,637
; FILING DATE: 01-JULY-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/260,452
; FILING DATE: 14-JUNE-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/076,327
; FILING DATE: 14-JUNE-1993
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/076,726
; FILING DATE: 14-JUNE-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DeConti, Giulio A. Jr.
; REGISTRATION NUMBER: 31,503
; REFERENCE/DOCKET NUMBER: BBI-009C6CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
;

/
/ APPLICATION NUMBER: US 08/076,726
/ FILING DATE: 14-JUNE-1993
/ CLASSIFICATION: 435
/ ATTORNEY/AGENT INFORMATION:
/ NAME: DeConti, Giulio A. Jr.
/ REGISTRATION NUMBER: 31,503
/ REFERENCE/DOCKET NUMBER: BBI-009CPS
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617)227-7400
/ TELEFAX: (617)227-5941
/ INFORMATION FOR SEQ ID NO: 13:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 38 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: double
/ TOPOLOGY: linear
/ MOLECULE TYPE: DNA
/ US-08-485-740-13

Query Match      8.4%; Score 18.4; DB 3; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAAGCTGAAGTGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 10
US-09-162-184-13/c
; Sequence 13, Application US/09162184A
; Patent No. 6136954
; GENERAL INFORMATION:
; APPLICANT: Bujard, Hermann
; APPLICANT: Gossen, Manfred
; TITLE OF INVENTION: Tetracycline-Inducible Transcriptional
; Activator Fusion Proteins
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/162,184A
; FILING DATE: 28-Sep-1998
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/383,754
; FILING DATE: 03-FEB-1995
; APPLICATION NUMBER: US 08/275,876
; FILING DATE: 15-JULY-1994
; APPLICATION NUMBER: US 08/270,637
; FILING DATE: 01-JULY-1994
; APPLICATION NUMBER: US 08/260,452
; FILING DATE: 14-JUNE-1994
; APPLICATION NUMBER: US 08/076,327
; FILING DATE: 14-JUNE-1993
; APPLICATION NUMBER: US 08/076,726
; FILING DATE: 14-JUNE-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: DeConti, Giulio A. Jr.
; REGISTRATION NUMBER: 31,503
; REFERENCE/DOCKET NUMBER: BBI-009C6CN
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
;
;
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TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-162-184-13

Query Match 8.4%; Score 18.4; DB 3; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAAACAGCTGAAGTTGTTAAG 183
DB 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 11
US-09-161-902-13/c
Sequence 13, Application US/09161902
Patent No. 6242667
GENERAL INFORMATION:
APPLICANT: Bujard, Hermann
Gossen, Manfred
TITLE OF INVENTION: Animal Transgenic for a Tetracycline- Inducible Transcription
NUMBER OF SEQUENCES: 28
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 State Street, Suite 510
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/161,902
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/487,472
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/275,876
FILING DATE: 15-JULY-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/270,637
FILING DATE: 01-JULY-94
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/260,452
FILING DATE: 14-JUNE-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/076,327
FILING DATE: 14-JUNE-1993
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/076,726
FILING DATE: 14-JUNE-1993
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
FILING DATE: 14-JUNE-1993
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-009CP3

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-09-161-902-13

Query Match 8.4%; Score 18.4; DB 3; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.4e+03;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGATTAAACAGCTGAAGTTGTTAAG 183
DB 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 12
US-09-489-777A-13/c
Sequence 13, Application US/09489777A
Patent No. 6271348
GENERAL INFORMATION:
APPLICANT: Bujard, Hermann
Gossen, Manfred
TITLE OF INVENTION: Tetracycline-Inducible Transcriptional
Inhibitor Fusion Proteins
NUMBER OF SEQUENCES: 37
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 28 State Street
CITY: Boston
STATE: Massachusetts
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/489,777A
FILING DATE: 24-Jan-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/162,184
FILING DATE: 28-SEP-1998
APPLICATION NUMBER: US 08/485,978
FILING DATE: 07-JUN-1995
APPLICATION NUMBER: US 08/383,754
FILING DATE: 03-FEB-1995
APPLICATION NUMBER: US 08/275,876
FILING DATE: 15-JULY-1994
APPLICATION NUMBER: US 08/270,637
FILING DATE: 01-JULY-1994
APPLICATION NUMBER: US 08/260,452
FILING DATE: 14-JUNE-1994
APPLICATION NUMBER: US 08/076,327
FILING DATE: 14-JUNE-1993
APPLICATION NUMBER: US 08/076,726
FILING DATE: 14-JUNE-1993
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-009C6CNDV
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)742-4214
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:

ADDRESSEE: Fish & Richardson
STREET: 225 Franklin Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110-2804
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
COMPUTER: IBM PS/2 Model 502 or 55SX
OPERATING SYSTEM: MS-DOS (Version 5.0)
SOFTWARE: WordPerfect (Version 5.1)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05835
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/242,409
FILING DATE: 13 May 1994
ATTORNEY/AGENT INFORMATION:
NAME: Clark, Paul T.
REGISTRATION NUMBER: 30,162
REFERENCE/DOCKET NUMBER: 00786/238001
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-5070
TELEFAX: (617) 542-8906
TELEX: 200154
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 46
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
PCT-US95-05835-12

Query Match 8.4%; Score 18.4; DB 5; Length 46;
Best Local Similarity 63.6%; Pred. No. 2.7e+03;
Matches 28; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

Qy 20 AGTGGACCATCGGGCGGAGAGGTTCCGACCTTTCCTTCCCC 63
Db 2 AGGGGTTGAAGGGCGGAGAGTTCGGAACCTTCTTCTTCCCC 45

Search completed: May 26, 2004, 09:20:40
Job time : 43.3039 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:41:55 ; Search time 955.965 Seconds
(without alignments)
1041.142 Million cell updates/sec

Title: US-10-048-046-1_COPY_181_399

Perfect score: 219

Sequence: 1 gtcctctgaggaagcggga.....tacagactgggagtgcac 219

Scoring table: IDENTITY_NUC

Gapop 10_0 , Gapext 1.0

Searched: 2953838 seqs, 2272363821 residues

Total number of hits satisfying chosen parameters: 1612472

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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- 2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq*
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- 12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq*
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- 19: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	9.1	47	16	US-10-170-097-687
2	18.6	8.5	40	12	US-10-038-833A-3666
3	18.4	8.4	38	9	US-09-874-389-13
4	18.4	8.4	38	10	US-09-921-650-13
5	18.4	8.4	38	11	US-09-241-347-13
6	18.4	8.4	38	15	US-10-032-393-64
7	18.4	8.4	38	15	US-10-301-515-10
8	18.4	8.4	38	15	US-10-326-671-53
9	18.4	8.4	47	16	US-10-170-097-1120
10	18.4	8.4	47	16	US-10-349-143-1696
11	18.4	8.4	50	16	US-10-131-827-3703
12	18.4	8.4	50	16	US-10-131-827-4230
13	18.2	8.3	46	13	US-10-252-155-739
14	18.2	8.3	46	13	US-10-252-155-740

15	18.2	8.3	50	16	US-10-131-827-4910	Sequence 4910, Ap
16	18.2	8.3	50	16	US-10-131-827-6159	Sequence 6159, Ap
17	18.2	8.3	50	16	US-10-131-827-6355	Sequence 6355, Ap
18	18	8.2	29	9	US-09-729-674-247	Sequence 247, App
19	18	8.2	42	9	US-09-179-536B-318	Sequence 318, App
20	18	8.2	42	10	US-09-297-576A-318	Sequence 318, App
21	18	8.2	50	10	US-09-946-374-126	Sequence 126, App
22	18	8.2	50	12	US-10-015-395A-126	Sequence 126, App
23	18	8.2	50	13	US-10-006-485A-126	Sequence 126, App
24	18	8.2	50	13	US-10-013-907A-126	Sequence 126, App
25	18	8.2	50	13	US-10-015-499A-126	Sequence 126, App
26	18	8.2	50	13	US-10-226-254A-126	Sequence 126, App
27	18	8.2	50	15	US-10-006-856A-126	Sequence 126, App
28	18	8.2	50	15	US-10-006-818A-126	Sequence 126, App
29	18	8.2	50	15	US-10-013-393A-126	Sequence 126, App
30	18	8.2	50	15	US-10-015-869A-126	Sequence 126, App
31	18	8.2	50	15	US-10-012-121A-126	Sequence 126, App
32	18	8.2	50	15	US-10-006-116A-126	Sequence 126, App
33	18	8.2	50	15	US-10-006-117A-126	Sequence 126, App
34	18	8.2	50	15	US-10-017-527A-126	Sequence 126, App
35	18	8.2	50	15	US-10-013-913A-126	Sequence 126, App
36	18	8.2	50	15	US-10-007-194A-126	Sequence 126, App
37	18	8.2	50	15	US-10-013-430A-126	Sequence 126, App
38	18	8.2	50	15	US-10-011-671A-126	Sequence 126, App
39	18	8.2	50	15	US-10-012-755A-126	Sequence 126, App
40	18	8.2	50	15	US-10-015-386A-126	Sequence 126, App
41	18	8.2	50	15	US-10-011-692A-126	Sequence 126, App
42	18	8.2	50	15	US-10-006-768A-126	Sequence 126, App
43	18	8.2	50	15	US-10-017-610A-126	Sequence 126, App
44	18	8.2	50	15	US-10-006-063A-126	Sequence 126, App
45	18	8.2	50	15	US-10-020-063A-126	Sequence 126, App

ALIGNMENTS

RESULT 1

US-10-170-097-687
; Sequence 687, Application US/10170097
; Publication No. US20030228582A1
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Chumakov, Ilva
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: ALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GEN-T114XC2D1
; CURRENT APPLICATION NUMBER: US/10/170,097
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 09/641,638
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 687
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 10-347-271 : polymorphic base A or T
US-10-170-097-687

Query Match

9.1%; Score 20; DB 16; Length 47;

Best Local Similarity 63.0%; Pred. No. 8.5e+03;
Matches 29; Conservative 1; Mismatches 16; Indels 0; Gaps 0;

QY 50 ACCTTCCTCCCTCCGACATTAACCTGCTCTGGAGATCACTGTAG 95
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Db 2 ACCTTCCTCCCTCCGCTGGCWCCTGCTCTCTCTTAGTAGTGG 47
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RESULT 2
US-10-035-833A-3666
; Sequence 3666, Application US/10035833A
; Publication No. US20040072156A1
; GENERAL INFORMATION:
; APPLICANT: Nakamura, Yuho
; APPLICANT: Sekine, Akihiro
; APPLICANT: Iida, Aritoshi
; APPLICANT: Saito, Osamu
; TITLE OF INVENTION: Detection of Genetic Polymorphisms
; FILE REFERENCE: FORS-06904
; CURRENT APPLICATION NUMBER: US/10/035,833A
; CURRENT FILING DATE: 2001-12-27
; NUMBER OF SEQ ID NOS: 7669
; SOFTWARE: Patent in version 3.2
; SEQ ID NO 3666
; LENGTH: 40
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (21)..(21)
; OTHER INFORMATION: g is present or absent.
US-10-035-833A-3666

Query Match 8.5%; Score 18.6; DB 12; Length 40;
Best Local Similarity 72.7%; Pred. No. 2.4e+04;
Matches 24; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 7 CTGAGAACGGGAGTGACCATCGGGCGGAGA 39
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Db 7 CAGAGTAGGGGGGTGGAGGTGGGAGGGGA 39
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RESULT 3
US-09-874-389-13/c
; Sequence 13, Application US/09874389
; Patent No. US20020152489A1
; GENERAL INFORMATION:
; APPLICANT: Bujard, Hermann
; Gossen, Manfred
; TITLE OF INVENTION: Animal Transgenic for a Tetracycline- Inducible Transcription
; NUMBER OF SEQUENCES: 28
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 State Street, Suite 510
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/874,389
; FILING DATE: 26-Dec-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/161,902
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 08/275,876
; FILING DATE: 15-JULY-1994

APPLICATION NUMBER: US 08/270,637
FILING DATE: 01-JULY-94
APPLICATION NUMBER: US 08/260,452
FILING DATE: 14-JUNE-1994
APPLICATION NUMBER: US 08/076,327
FILING DATE: 14-JUNE-1993
APPLICATION NUMBER: US 08/076,726
FILING DATE: 14-JUNE-1993
ATTORNEY/AGENT INFORMATION:
NAME: DeConti, Giulio A. Jr.
REGISTRATION NUMBER: 31,503
REFERENCE/DOCKET NUMBER: BBI-009CP3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 38 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 13:
US-09-874-389-13

Query Match 8.4%; Score 18.4; DB 9; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.8e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGAACAGTGATTAAACAGCTGAAGTTGTTAAG 183
|||||
Db 38 AATTACTGTGATAAAGTACTTATCGATGATAAG 3
|||||

RESULT 4
US-09-921-650-13/c
; Sequence 13, Application US/09921650
; Publication No. US20030022315A1
; GENERAL INFORMATION:
; APPLICANT: Bujard, Hermann
; Gossen, Manfred
; TITLE OF INVENTION: Tetracycline-Inducible Transcriptional Activator Fusion Proteins
; NUMBER OF SEQUENCES: 37
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 28 State Street
; CITY: Boston
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII Text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/921,650
; FILING DATE: 03-Aug-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 09/912,650
; FILING DATE: 2001-08-03
; APPLICATION NUMBER: US 08/485,978
; FILING DATE: 07-JUN-1995
; APPLICATION NUMBER: US 08/383,754
; FILING DATE: 03-FEB-1995
; APPLICATION NUMBER: US 08/275,876
; FILING DATE: 15-JULY-1994
; APPLICATION NUMBER: US 08/270,637
; FILING DATE: 01-JULY-1994
; APPLICATION NUMBER: US 08/260,452
; FILING DATE: 14-JUNE-1994


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; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 10
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic tet
; OTHER INFORMATION: operator sequence
US-10-301-516-10

Query Match      8.4%; Score 18.4; DB 15; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.8e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGTATTACCAAGCTGAAGGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 8
US-10-326-671-53/c
; Sequence 53, Application US/10326671
; Publication No. US20030186281A1
; GENERAL INFORMATION:
; APPLICANT: Hilten, Wolfgang
; TITLE OF INVENTION: MODIFIED TETRACYCLINE REPRESSOR PROTEIN COMPOSITIONS AND METHODS
; FILE REFERENCE: 10182-022-999
; CURRENT APPLICATION NUMBER: US/10/326,671
; CURRENT FILING DATE: 2002-12-20
; PRIOR APPLICATION NUMBER: US 60/343,278
; PRIOR FILING DATE: 2001-12-21
; NUMBER OF SEQ ID NOS: 459
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 53
; LENGTH: 38
; TYPE: DNA
; ORGANISM: Plasmid pSC101
US-10-326-671-53

Query Match      8.4%; Score 18.4; DB 15; Length 38;
Best Local Similarity 69.4%; Pred. No. 2.8e+04;
Matches 25; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 148 AGTGGACAGTGTATTACCAAGCTGAAGGTGTTAAG 183
Db 38 AATTAACTGTGATAAACTAGCTTATCGATGATAAG 3

RESULT 9
US-10-170-097-1120
; Sequence 1120, Application US/10170097
; Publication No. US20030228582A1
; GENERAL INFORMATION:
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Bougueleret, Lydie
; APPLICANT: Chumakov, Ilya
; APPLICANT: Cohen, Annick
; TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
; TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
; FILE REFERENCE: GEN-T114XC2D1
; CURRENT APPLICATION NUMBER: US/10/170,097
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: US 09/641,638
; PRIOR FILING DATE: 2000-08-16
; PRIOR APPLICATION NUMBER: US 09/502,330
; PRIOR FILING DATE: 2000-02-11
; PRIOR APPLICATION NUMBER: US 60/133,200
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: US 09/275,267
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: US 60/119,917
; PRIOR FILING DATE: 1999-02-12
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; NUMBER OF SEQ ID NOS: 1304
; SOFTWARE: Patent.pm
; SEQ ID NO 1120
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 12-44-67 : polymorphic base T or C
US-10-170-097-1120

Query Match      8.4%; Score 18.4; DB 16; Length 47;
Best Local Similarity 73.3%; Pred. No. 3e+04;
Matches 22; Conservative 1; Mismatches 7; Indels 0; Gaps 0;

QY 63 CAGCAATAAACTGCTCTCTCGAGATCACTG 92
Db 14 CAGCCAGAAGYTGCTCTGTGATGGCACTG 43

RESULT 10
US-10-349-143-1696
; Sequence 1696, Application US/10349143
; Publication No. US20040005584A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Chumakov, Ilya
; TITLE OF INVENTION: Biallelic markers for use in constructing a high density...
; FILE REFERENCE: GENSET.020Cp1
; CURRENT APPLICATION NUMBER: US/10/349,143
; CURRENT FILING DATE: 2003-01-21
; PRIOR APPLICATION NUMBER: US/09/422,978
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 09/298,850
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-04-21
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/109,732
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-23
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/082,614
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-04-21
; NUMBER OF SEQ ID NOS: 11796
; SEQ ID NO 1696
; LENGTH: 47
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: 99-5709-80 : polymorphic base A or G
US-10-349-143-1696

Query Match      8.4%; Score 18.4; DB 16; Length 47;
Best Local Similarity 60.9%; Pred. No. 3e+04;
Matches 28; Conservative 1; Mismatches 17; Indels 0; Gaps 0;

QY 140 CCAGCACCAGTGGAAACAGTGTATTACCAAGCTGAAGGTGTTAAGAA 185
Db 1 CTAGCAGAACTGGATCATGATCTACAAATAATGAAGAGGCTTTGCA 46

RESULT 11
US-10-131-827-3703/c
; Sequence 3703, Application US/10131827
; Publication No. US20040000479A1
; GENERAL INFORMATION:
; APPLICANT: Wohlgenuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 506612000120
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Search completed: May 26, 2004, 10:22:39
Job time : 955.965 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:12:53 ; Search time 1520.36 Seconds
(without alignments)
4301.492 Million cell updates/sec

Title: US-10-048-046-1_COPY_181_399

Perfect score: 219
Sequence: 1 gtctctctgaggaagcggga.....tacagactgggagtgatc 219

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 138346

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:
1: em_estab:*
2: em_esthum:*
3: em_estin:*
4: em_estnu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hic:*
9: gb_est1:*
10: gb_est2:*
11: gb_hic:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rtd:*
26: em_gss_phg:*
27: em_gss_vrl:*
28: gb_gsi1:*
29: gb_gss2:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	22	10.0	50	28	AZ481318 1M0303B05
2	21.6	9.9	50	9	AUI02838
C 3	20.8	9.5	43	9	A1266869 uJ08a10.x
C 4	20.8	9.5	50	9	AUI07911 AUI07911

C	5	20.2	9.2	50	9	AUI05891
	6	19.4	8.9	50	9	AUI02843
	7	19.4	8.9	50	9	AUI02844
	8	18.8	8.6	40	9	AA137304
	9	18.8	8.6	50	9	AL628983
	10	18.8	8.6	50	9	AUI02832
	11	18.6	8.5	50	9	AUI06276
C	12	18.6	8.5	50	9	AUI06279
C	13	18.4	8.4	44	29	AL945796
C	14	18.2	8.3	44	10	BE882963
C	15	18.2	8.3	45	29	CG718854
C	16	18.2	8.3	48	28	AZ486468
C	17	18.2	8.3	50	9	AUI04187
C	18	18	8.2	41	28	CC326813
C	19	18	8.2	43	28	BH906713
C	20	17.8	8.1	50	9	AUI04910
C	21	17.6	8.0	40	9	AI634441
C	22	17.6	8.0	46	29	CC887026
C	23	17.6	8.0	49	12	B065334
C	24	17.4	7.9	28	13	BQ593079
C	25	17.4	7.9	45	12	BI218941
C	26	17.4	7.9	50	9	AUI05889
C	27	17.2	7.9	33	28	AZ840354
C	28	17.2	7.9	38	28	BZ292435
C	29	17.2	7.9	38	29	TA117B04P
C	30	17.2	7.9	41	28	AZ789628
C	31	17.2	7.9	50	9	AUI04911
C	32	17.2	7.9	50	9	AUI06272
C	33	17.2	7.9	50	9	AUI06275
C	34	17	7.8	43	28	BZ596218
C	35	17	7.8	49	28	BZ380372
C	36	17	7.8	50	9	AUI02511
C	37	17	7.8	50	9	AUI02514
C	38	17	7.8	50	9	AUI02516
C	39	17	7.8	50	9	AUI02517
C	40	17	7.8	50	9	AUI06287
C	41	16.8	7.7	37	28	BH418190
C	42	16.8	7.7	49	28	BZ664689
C	43	16.8	7.7	49	28	BZ664691
C	44	16.8	7.7	50	9	AUI06277
C	45	16.6	7.6	32	28	AZ332090

ALIGNMENTS

RESULT 1
AZ481318
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

AZ481318 50 bp DNA linear GSS 04-OCT-2000
1M0303B05R Mouse 10kb plasmid UUGCLM library Mus musculus genomic
clone UUGCLM0303B05 R, genomic survey sequence.
AZ481318
GI:10642383
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 50)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmood, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.
Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah Genome Center
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177

ORIGIN

Query Match 8.9%; Score 19.4; DB 9; Length 50;
Best Local Similarity 70.3%; Pred. No. 1.7e+05;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 106 GATGAAAAATCAGGTGACACTGGAAGATACCA 142
DB 5 GCTATAAAAACAGCGAGGAGAACTGGCAGATACCA 41

RESULT 7
LOCUS AUI02844
DEFINITION AUI02844 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
CAS11168, mRNA sequence.
ACCESSION AUI02844
VERSION AUI02844.1 GI:13552365
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 50)
Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
PUBMED 11375929
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki, Y., Yoshitono-Nakagawa, K., Maruyama, K., Suyama, A. and
Sugano, S. Construction and characterization of a full
length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
149-156 (1997).

FEATURES
source
1..50
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CAS11168"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 8.9%; Score 19.4; DB 9; Length 50;
Best Local Similarity 70.3%; Pred. No. 1.7e+05;
Matches 26; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 106 GATGAAAAATCAGGTGACACTGGAAGATACCA 142
DB 5 GCTATAAAAACAGCGAGGAGAACTGGCAGATACCA 41

RESULT 8
LOCUS AAI37304
DEFINITION mq80b07.r1 Stratagene mouse melanoma (#937312) Mus musculus cDNA
clone IMAGE:585013 5', similar to TR:G1002369 G1002369 COATOMER
PROTEIN. i, mRNA sequence.
AAI37304
ACCESSION AAI37304
VERSION AAI37304.1 GI:1700284
KEYWORDS EST.

SOURCE
ORGANISM Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 40)
Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
Geisel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
Thaising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
Waterston, R.
The WashU-HMI Mouse EST Project
Unpublished (1996)
Contact: Marra M/Mouse EST Project
WashU-HMI Mouse EST Project
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: mouseest@watson.wustl.edu
This clone is available royalty-free through LNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
MGI:359661
Possible reversed clone: similarity on wrong strand
Seq primer: -28ml3 rev1 ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1..40
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/clone="IMAGE:585013"
/tissue_type="melanoma"
/dev_stage="M2 cells"
/lab_host="SOLR (kanamycin resistant)"
/clone_lib="Stratagene mouse melanoma (#937312)"
/note="Organ: skin; Vector: pBluescript SK-; Site 1:
EcoRI; Site 2: XhoI; Cloned unidirectionally. Primer:
Oligo dt. From M2 cells, a highly metastatic derivative of
the K-1735 (mouse) melanoma. Average insert size: 1.0 kb;
Uni-ZAP XR Vector; -5' adaptor sequence: 5' GAATTCGGCAGAG
3' -3' adaptor sequence: 5' CTCGAGTTTTTTTTTTTTTTT 3'.

ORIGIN

Query Match 8.6%; Score 18.8; DB 9; Length 40;
Best Local Similarity 76.7%; Pred. No. 2.4e+05;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 171 GAAGTTCTTAAGAGCAGACATGCCCTTT 200
DB 5 GCAGGTTCTTTTGAACAGCCATGCGCTTT 34

RESULT 9
LOCUS AL628983
DEFINITION AL628983 XGC-gastrula Silurana tropicalis cDNA clone TGas011g16 5',
mRNA sequence.
ACCESSION AL628983
VERSION AL628983.1 GI:16598466
KEYWORDS EST.
SOURCE Silurana tropicalis (western clawed frog)
ORGANISM Silurana tropicalis
Silurana tropicalis
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
Xenopodinae; Silurana.
1 (bases 1 to 50)
Croning, M.D.R., Ashurst, J.L., Taylor, R., Zorn, A.M. and Rogers, J.
Sanger Xenopus tropicalis EST project 2001 (11_2003)
Unpublished (2003)
Contact: Huckle E
Sanger Institute
Hinxton, Cambridgeshire, CB10 1SA, UK
Email: trop@sanger.ac.uk

This sequence is from a Xenopus Gene Collection (XGC) library constructed by Aaron M. Zorn.
cDNA was oligo dt primed from 5ug of poly A+ RNA from stages 10-13 gastrulae. EcoRI-NotI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NotI at the 3' end
Vector: pCS107; Site 1: EcoRI; Site 2: NotI
Host: Escherichia coli XL1-blue
Sanger Xenopus tropicalis EST project 2001
TROPICALIS SEQUENCE ID: TGAS011g16.plksp6
Sequencing primer: Sp6.

FEATURES
Location/Qualifiers
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/organism="Silurana tropicalis"
/mol_type="mRNA"
/db_xref="taxon:8364"
/clone="TGAS011g16"
/dev_stages="gastrula (stages 10.5-12 mixed)"
/lab_host="Escherichia coli XL1-blue"
/clone_lib="XGC-gastrula"
/note="Vector: pCS107; Site 1: EcoRI; Site 2: NotI; cDNA was oligo dt primed from 5ug of poly A+ RNA from stages 10-13 gastrulae. EcoRI-NotI cut cDNA was then ligated into pCS107 with EcoRI at the 5' end and NotI at the 3' end."

ORIGIN
Query Match 8.6%; Score 18.8; DB 9; Length 50;
Best Local Similarity 68.4%; Pred. No. 2.7e+05;
Matches 26; Conservative 12; Mismatches 12; Indels 0; Gaps 0;

QY 4 CTCCTGAGGAGCGGAGTGACCATCGGGCGGAGACG 41
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Db 13 CTCCTGTTCAAGGGGAGAGACTGCGGCGAGGACATG 50
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RESULT 10
AUI02832 50 bp mRNA linear EST 30-AUG-2001
LOCUS AUI02832 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION CAS01996, mRNA sequence.
ACCESSION AUI02832 GI:13552353
VERSION
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
REFERENCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
Location/Qualifiers
1..50
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CAS01996"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN
Query Match 8.5%; Score 18.6; DB 9; Length 50;
Best Local Similarity 65.9%; Pred. No. 3.1e+05;
Matches 27; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 8 TGAGGAGCGGAGTGGACCATCGGGCGGAGACGAGGTTCG 48
|||||
Db 48 TCGGGAACAGCGCGGAGGAGCGCGCGCGCCAGGTCGC 8
|||||

RESULT 12
AUI06279 50 bp mRNA linear EST 30-AUG-2001
LOCUS AUI06279 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HRC06165, mRNA sequence.
ACCESSION AUI06279
VERSION AUI06279.1 GI:13555800
KEYWORDS
SOURCE EST.
ORGANISM Homo sapiens (human)
REFERENCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
Location/Qualifiers
1..50
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="CAS01996"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 8.6%; Score 18.8; DB 9; Length 50;
Best Local Similarity 76.7%; Pred. No. 2.7e+05;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 113 ATCAGTCAAGTGCACCTGGAAGATACCA 142
|||||
Db 10 AAACAGCGAGGAGACACTGGCAGATACCA 39
|||||

RESULT 11
AUI06276/c 50 bp mRNA linear EST 30-AUG-2001
LOCUS AUI06276 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HRC04067, mRNA sequence.
ACCESSION AUI06276
VERSION AUI06276.1 GI:13555797
KEYWORDS EST.
SOURCE
ORGANISM Homo sapiens (human)
REFERENCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K., Sakaki,Y., Nakamura,Y., Suyama,A. and Sugano,S.
Diverse transcriptional initiation revealed by fine, large-scale mapping of mRNA start sites
EMBO Rep. 2 (5), 388-393 (2001)
21270072
COMMENT Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: ysuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano,S. Construction and characterization of a full length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
Location/Qualifiers
1..50
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="HRC04067"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN
Query Match 8.5%; Score 18.6; DB 9; Length 50;
Best Local Similarity 65.9%; Pred. No. 3.1e+05;
Matches 27; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 8 TGAGGAGCGGAGTGGACCATCGGGCGGAGACGAGGTTCG 48
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Db 48 TCGGGAACAGCGCGGAGGAGCGCGCGCGCCAGGTCGC 8
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RESULT 12
AUI06279/c 50 bp mRNA linear EST 30-AUG-2001
LOCUS AUI06279 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HRC06165, mRNA sequence.
ACCESSION AUI06279
VERSION AUI06279.1 GI:13555800
KEYWORDS EST.
SOURCE
ORGANISM Homo sapiens (human)
REFERENCE Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS Suzuki,Y., Taira,H., Tsunoda,T., Mizushima-Sugano,J., Sese,J., Hata,H., Ota,T., Isogai,T., Tanaka,T., Morishita,S., Okubo,K.,

RESULT 15
CG718854/c
LOCUS CG718854 45 bp DNA linear GSS 20-OCT-2003
DEFINITION 1119054G10.1EL_y1 1119 - RescueMu Grid AA Zea mays genomic, genomic
survey sequence.
ACCESSION CG718854
VERSION CG718854.1 GI:37750174
KEYWORDS GSS.
SOURCE Zea mays
ORGANISM Zea mays
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
1 (bases 1 to 45)
Walbot,V.
Maize genomic sequences found using engineered RescueMu transposon
Unpublished (2001)
Contact: Walbot V
Department of Biological Sciences
Stanford University
855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu
Very probable ligation site of ends cut by single endonuclease.
Reverse complemented post-ligation sequence from source sequence.
Plate: 1119054 row: 15
Class: transposon-tagged.
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Location/Qualifiers
1..45
/organism="Zea mays"
/mol_type="genomic DNA"
/culturvar="mixed background W23/A188/B73/K55"
/db_xref="taxon:4577"
/tissue_type="leaf"
/dev_stage="adult"
/lab_host="DH10B"
/note="Organ: leaf; Vector: RescueMu (engineered from
pBlueScript backbone); Site 1: BamHI; Site 2: BglII;
RescueMu is a 4.9 kb, modified maize Mu transposon
designed to allow plasmid rescue from total genomic DNA.
Mu elements insert preferentially into transcription
units. For more information on RescueMu, go to the web
site 'www.zmdb.iaestate.edu' and follow the links for
'RescueMu.' Grid AA was grown at UC San Diego in 2002. DNA
was extracted from leaf strips, double digested using
BamHI and BglII, and ligated to form circular plasmids.
DH10B cells were transformed and then screened on LB
plates with ampicillin."

ORIGIN

Query Match 8.3%; Score 18.2; DB 29; Length 45;
Best Local Similarity 66.7%; Pred. No. 3.8e+05;
Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 44 GTTGGACCTTTCCTCCCGCAATAAATCGTCTCG 82
DB 45 GATCTCCCTCTCCATCAAGAGATATGAATGGGTCTG 7

Search completed: May 26, 2004, 09:17:45
Job time : 1524.36 secs

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	20.2	15.3	47	6	AR290994	AR290994 Sequence
2	19.6	14.8	48	6	AX611835	AX611835 Sequence
3	19.2	14.5	47	6	I07024	I07024 Sequence 6
4	19.2	14.5	47	6	I27626	I27626 Sequence 18
5	19.1	14.4	47	6	I07021	I07021 Sequence 3
6	18.2	13.8	47	6	I27623	I27623 Sequence 15
7	18.2	13.8	36	6	AX740373	AX740373 Sequence
8	18.2	13.8	41	6	A01533	A01533 Joining reg
9	18.2	13.8	48	6	AR051077	AR051077 Sequence
10	18.2	13.8	48	6	AR430291	AR430291 Sequence
11	18.1	13.6	45	6	AR078468	AR078468 Sequence
12	18.1	13.6	47	6	A26491	A26491 Synthetic I
13	18.1	13.6	47	6	AR118511	AR118511 Sequence
14	18.1	13.6	47	6	AR153892	AR153892 Sequence
15	18.1	13.6	48	6	AX611836	AX611836 Sequence
16	17.6	13.3	42	6	E16421	E16421 DNA encodin
17	17.6	13.3	45	6	E16414	E16420 DNA encodin
18	17.6	13.3	38	6	E16420	E16420 DNA encodin
19	17.4	13.2	32	6	AR373963	AR373963 Sequence
20	17.4	13.2	40	6	AR363937	AR363937 Sequence
21	17.2	13.0	43	4	OCTR07	V00898 Rabbit trop
22	17.2	13.0	45	6	E16424	E16424 DNA encodin
23	17.2	13.0	45	6	E16427	E16427 DNA encodin
24	17.2	13.0	46	6	AR363127	AR363127 Sequence
25	17.2	13.0	46	6	AX769580	AX769580 Sequence
26	17.1	12.9	36	6	I91771	I91771 Sequence 5
27	17.1	12.9	47	6	AR289000	AR289000 Sequence
28	17.1	12.9	47	6	AX378744	AX378744 Sequence
29	17.1	12.9	48	6	AR031652	AR031652 Sequence
30	17.1	12.9	48	6	AR032616	AR032616 Sequence
31	17.1	12.9	48	6	I29356	I29356 Sequence 22
32	17.1	12.9	48	6	I90270	I90270 Sequence 11
33	17.1	12.9	48	6	I91030	I91030 Sequence 22
34	17.1	12.9	48	6	AR209280	AR209280 Sequence
35	16.8	12.7	30	6	I89979	I89979 Sequence 27
36	16.8	12.7	39	6	A22325	A22325 Primer O-2
37	16.8	12.7	39	6	A22326	A22326 Primer O-2
38	16.8	12.7	40	6	AR253252	AR253252 Sequence
39	16.8	12.7	40	6	BD138012	BD138012 Lctomedl
40	16.8	12.7	47	6	AR001266	AR001266 Sequence
41	16.8	12.7	47	6	I23424	I23424 Sequence 17
42	16.8	12.7	48	6	BD182587	BD182587 Anti TRAI
43	16.8	12.7	50	6	AR032939	AR032939 Sequence
44	16.8	12.7	50	6	E50843	E50843 Process for
45	16.8	12.7	50	6	I29679	I29679 Sequence 55

ALIGNMENTS

RESULT 1	AR290994	AR290994	47 bp	DNA	linear	PAT 12-JUN-2003
LOCUS	Sequence	2729 from patent US 6537751.				
DEFINITION	AR290994					
ACCESSION	AR290994.1	GI:31678278				
VERSION						
KEYWORDS						
SOURCE	Unknown.					
ORGANISM	Unclassified.					
REFERENCE	1 (bases 1 to 47)					
AUTHORS	Cohen, D., Chumakov, I. and Blumenfeld, M.					
TITLE	Biallelic markers for use in constructing a high density					
JOURNAL	Disequilibrium map of the human genome					
	Patent: US 6537751-A 2729 25-MAR-2003;					

OM nucleic - nucleic search, using sw model
Run on: May 26, 2004, 05:10:28 ; Search time 982.615 Seconds
(without alignments)
5822.506 Million cell updates/sec

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Perfect score: 132
Sequence: 1 acatgcacatcgcaggga.....ctaccgcgcgtgcccg 132

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 1603530

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 2: gb_hcg.*
- 3: gb_in.*
- 4: gb_om.*
- 5: gb_ov.*
- 6: gb_pat.*
- 7: gb_ph.*
- 8: gb_pl.*
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- 10: gb_ro.*
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- 28: em_un.*
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- 30: em_htg_hum.*
- 31: em_htg_inv.*
- 32: em_htg_other.*
- 33: em_htg_mus.*
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- 39: em_htgo_hum.*
- 40: em_htgo_mus.*
- 41: em_htgo_other.*

Pred. No. is the number of results predicted by chance to have a

74 CTTGCTACTCGGGCTGGATGGAGCGCTCGTCCCTGTGTCC 113

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REFERENCE 1 (bases 1 to 47)
AUTHORS Capon,D.J. and Gregory,T.J.
TITLE Adhesion variants
JOURNAL Patent: US 5565335-A 15 15-OCT-1996;
FEATURES Location/Qualifiers
source
1..47
/organism="unknown"
/mol_type="unassigned DNA"
ORIGIN

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Best Local Similarity 71.4%; Pred. No. 2.6e+06;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

Qy 74 CTTGCTACTCGGCTGGATGAGCGCTCGTCCCTG 108
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Db 12 CTTGCTTGTGTGTGCAACTGGCGCTCCTCCAG 46
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RESULT 7
AX740373/c
LOCUS AX740373 36 bp DNA linear PAT 10-MAY-2003
DEFINITION Sequence 107 from Patent EP1300419.
ACCESSION AX740373
VERSION AX740373.1 GI:30523546
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.

REFERENCE 1
AUTHORS Buettner,C., Schwarz,M., Knackmuss,S., Peter,K., Roettgen,P. and
TITLE Antibody of human origin for inhibiting thrombocyte aggregation
JOURNAL Patent: EP 1300419-A 107 09-APR-2003;
FEATURES Affirmed Therapeutics AG (DE)
source Location/Qualifiers
1..36
/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="Oligonucleotide"
ORIGIN

Query Match 13.8%; Score 18.2; DB 6; Length 36;
Best Local Similarity 87.0%; Pred. No. 4.3e+06;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 46 CAGCCCTGCATGCACACGTTCTG 68
| | | | | | | | | | | | | | | | | | | |
Db 27 CAGCCCTGCCTGTACGCGTTCTG 5
| | | | | | | | | | | | | | | | | | | |

RESULT 8
A01533
LOCUS A01533 41 bp DNA linear PAT 25-FEB-1993
DEFINITION Joining region of the bacterial origin and part of pBR322 origin in
ACCESSION A01533
VERSION A01533.1 GI:344373
KEYWORDS synthetic construct
SOURCE synthetic construct
ORGANISM artificial sequences.

REFERENCE 1 (bases 1 to 41)
AUTHORS EXPRESSION VECTORS AND METHOD FOR THEIR CONSTRUCTION
TITLE Patent: WO 8902466-A 4 23-MAR-1989;
JOURNAL
FEATURES Location/Qualifiers
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ORIGIN

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Matches 23; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 40 AGTTTGCAGCCCTGCATGCACACGTTCTGCG 70
| | | | | | | | | | | | | | | | | | | |
Db 10 AGTATGCAACCCCTGCCTGCGGCTTTCGGTG 40
| | | | | | | | | | | | | | | | | | | |

RESULT 9
AR051077
LOCUS AR051077 48 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 20 from patent US 5830650.
ACCESSION AR051077
VERSION AR051077.1 GI:5974441
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 48)
AUTHORS Crea,R.
TITLE Walk-through mutagenesis
JOURNAL Patent: US 5830650-A 20 03-NOV-1998;
FEATURES Location/Qualifiers
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source /organism="unknown"
/mol_type="unassigned DNA"
ORIGIN

Query Match 13.8%; Score 18.2; DB 6; Length 48;
Best Local Similarity 48.9%; Pred. No. 4e+06;
Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

Qy 64 TTCTGCGCGGCTTGCTACTCGGCTGGATGGAGCGCTCGTCCCTGTG 110
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Db 1 TACTGCGCGGTARCTMCTMTRGCAGCASTTGTCTMCTCYCKCKYTTG 47
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RESULT 10
AR430291
LOCUS AR430291 48 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 20 from patent US 6649340.
ACCESSION AR430291
VERSION AR430291.1 GI:40191060
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 48)
AUTHORS Crea,R.
TITLE Walk-through mutagenesis
JOURNAL Patent: US 6649340-A 20 18-NOV-2003;
FEATURES Location/Qualifiers
source
1..48
/organism="unknown"
/mol_type="genomic DNA"
ORIGIN

Query Match 13.8%; Score 18.2; DB 6; Length 48;
Best Local Similarity 48.9%; Pred. No. 4e+06;
Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

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Db 1 TACTGCGCGGTARCTMCTMTRGCAGCASTTGTCTMCTCYCKCKYTTG 47
| | | | | | | | | | | | | | | | | | | |

RESULT 11
AR078468/c
LOCUS AR078468 45 bp DNA linear PAT 31-AUG-2000
DEFINITION Sequence 8 from patent US 5962664.
ACCESSION AR078468

```

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VERSION      AR078468.1  GI:10005214
KEYWORDS
SOURCE       Unknown.
ORGANISM     Unknown.
REFERENCE    1 (bases 1 to 45)
AUTHORS      Friedhoff,A.J., Baeham,D.A. and Miller,J.C.
TITLE        Psychosis protecting nucleic acid, peptides, compositions and
              method of use
JOURNAL      Patent: US 5962664-A 8 05-OCT-1999;
FEATURES     Location/Qualifiers
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ORIGIN
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Best Local Similarity 80.8%; Pred. No. 4.5e+06;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 74 CTTGCTACTCGGCTTGCTACTCGGGCTGGATGGAGCGC 99
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Db 29 CTTGTGCCAGGCTGGATGGAGTGC 4

RESULT 12
LOCUS      A26491
DEFINITION Synthetic IDUA probe ID47.
ACCESSION  A26491
VERSION    A26491.1  GI:11248227
KEYWORDS   synthetic construct
           synthetic construct
           artificial sequences.
ORGANISM   1 (bases 1 to 47)
REFERENCE  Hopwood,J.J., Orsborn,A.M., Anson,D.S., Clements,P.R., Morris,C.P.,
AUTHORS    Nelson,P.V. and Scott,H.S.
TITLE      Synthetic alpha-L-iduronidase and genetic sequences encoding same
JOURNAL    Patent: WO 9310244-A 1 27-MAY-1993;
           WOMENS & CHILDRENS HOSPITAL (AU)
FEATURES   Location/Qualifiers
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ORIGIN
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Best Local Similarity 64.3%; Pred. No. 4.5e+06;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 61 ACGTTCTGCGGCTTGCTACTCGGGCTGGATGGAGCGCTCG 102
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 47 ACGTTGCGAAGTCGTGCTGTCGGGCTCGTTCACAGGTCCTG 6

RESULT 13
LOCUS      AR118511/c
DEFINITION Sequence 1 from patent US 6149909.
ACCESSION  AR118511
VERSION    AR118511.1  GI:14100421
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 47)
AUTHORS    Scott,H.Steele., Anson,D.Stewart., Orsborn,A.Marie.,
           Nelson,P.Victor., Clements,P.Roy., Morris,C.Phillip. and
           Hopwood,J.Joseph.
TITLE      Synthetic .alpha -L-iduronidase and genetic sequences encoding same
JOURNAL    Patent: US 6149909-A 1 21-NOV-2000;

VERSION      AR078468.1  GI:10005214
KEYWORDS
SOURCE       Unknown.
ORGANISM     Unknown.
REFERENCE    1 (bases 1 to 45)
AUTHORS      Friedhoff,A.J., Baeham,D.A. and Miller,J.C.
TITLE        Psychosis protecting nucleic acid, peptides, compositions and
              method of use
JOURNAL      Patent: US 5962664-A 8 05-OCT-1999;
FEATURES     Location/Qualifiers
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                /organism="unknown"
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ORIGIN
Query Match      13.6%; Score 18; DB 6; Length 45;
Best Local Similarity 80.8%; Pred. No. 4.6e+06;
Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 74 CTTGCTACTCGGCTTGCTACTCGGGCTGGATGGAGCGC 99
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Db 29 CTTGTGCCAGGCTGGATGGAGTGC 4

RESULT 12
LOCUS      A26491
DEFINITION Synthetic IDUA probe ID47.
ACCESSION  A26491
VERSION    A26491.1  GI:11248227
KEYWORDS   synthetic construct
           synthetic construct
           artificial sequences.
ORGANISM   1 (bases 1 to 47)
REFERENCE  Hopwood,J.J., Orsborn,A.M., Anson,D.S., Clements,P.R., Morris,C.P.,
AUTHORS    Nelson,P.V. and Scott,H.S.
TITLE      Synthetic alpha-L-iduronidase and genetic sequences encoding same
JOURNAL    Patent: WO 9310244-A 1 27-MAY-1993;
           WOMENS & CHILDRENS HOSPITAL (AU)
FEATURES   Location/Qualifiers
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             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"

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Query Match      13.6%; Score 18; DB 6; Length 47;
Best Local Similarity 64.3%; Pred. No. 4.5e+06;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 61 ACGTTCTGCGGCTTGCTACTCGGGCTGGATGGAGCGCTCG 102
    |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||  |||||
Db 47 ACGTTGCGAAGTCGTGCTGTCGGGCTCGTTCACAGGTCCTG 6

RESULT 13
LOCUS      AR118511/c
DEFINITION Sequence 1 from patent US 6149909.
ACCESSION  AR118511
VERSION    AR118511.1  GI:14100421
KEYWORDS   Unknown.
SOURCE     Unknown.
ORGANISM   Unclassified.
REFERENCE  1 (bases 1 to 47)
AUTHORS    Scott,H.Steele., Anson,D.Stewart., Orsborn,A.Marie.,
           Nelson,P.Victor., Clements,P.Roy., Morris,C.Phillip. and
           Hopwood,J.Joseph.
TITLE      Synthetic .alpha -L-iduronidase and genetic sequences encoding same
JOURNAL    Patent: US 6149909-A 1 21-NOV-2000;

FEATURES     source
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              /db_xref="taxon:9606"

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Best Local Similarity 70.6%; Pred. No. 4.5e+06;
Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

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Qy 23 TGCTGCACGACTGGCTGAGTTTCAGCCCTGCAT 56
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Db 12 TGATAATGACTTCAAGAGCTTGGAGCCCGGCAT 45
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Search completed: May 26, 2004, 07:39:18
Job time : 984.615 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:01:38 ; Search time 111.477 Seconds
(without alignments)
5030.293 Million cell updates/sec

Title: US-10-048-046-1_COPY_997_1128

Perfect score: 132
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 337863 seqs, 2124099041 residues

Total number of hits satisfying chosen parameters: 3185356

Minimum DB seq length: 0
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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2: Geneseqn1990s.*
3: Geneseqn2000s.*
4: Geneseqn2001as.*
5: Geneseqn2001bs.*
6: Geneseqn2002s.*
7: Geneseqn2003as.*
8: Geneseqn2003bs.*
9: Geneseqn2003cs.*
10: Geneseqn2004s.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	20.2	15.3	42	6	ABL95873	ABL95873 LLPL-rela
C 2	19.2	14.5	50	9	ADD31850	Add31850 Synthetic
3	19	14.4	47	3	Aaz268382	Aaz268382 Human map
4	18.8	14.2	41	6	ABN83043	ABN83043 Human ank
C 5	18.2	13.8	36	9	AD503377	Ad503377 Human imm
6	18.2	13.8	48	2	AAV60897	AAV60897 Oligonuc1
7	18.2	13.8	48	9	ADD54968	Add54968 Heavy cha
C 8	18	13.6	47	2	AAQ42415	AAQ42415 IDUA prim
C 9	18	13.6	48	7	AB56353	AB56353 PCR prime
10	18	13.6	50	6	AB201079	AB201079 Human leu
C 11	17.8	13.5	50	4	AAU31778	AAU31778 Human SNP
12	17.6	13.3	42	2	AAV02057	AAV02057 Mutated h
13	17.6	13.3	45	2	AAV02046	AAV02046 hCS-15 pe
14	17.6	13.3	48	2	AAV02056	AAV02056 Mutated h
15	17.6	13.3	50	4	AAU34532	AAU34532 Human SNP
C 16	17.4	13.2	28	5	AAFC0356	AAFC0356 Human che
17	17.4	13.2	49	8	ACFC0478	ACFC0478 Cdc20 sup
18	17.2	13.0	41	6	ABN83042	ABN83042 Human ank
C 19	17.2	13.0	41	6	ABV75713	ABV75713 Tumour su
20	17.2	13.0	45	2	AAV02060	AAV02060 Mutated h
21	17.2	13.0	45	2	AAV02063	AAV02063 Mutated h
C 22	17.2	13.0	46	1	AAN60796	AAN60796 Sequence
C 23	17.2	13.0	46	2	AAT28216	AAT28216 Feline he

C	24	17.2	13.0	46	7	ABZ68916	Abz68916	PCR prime
	25	17.2	13.0	50	4	AAU33784	Human SNP	
	26	17	12.9	36	2	AAQ97839	Human E1	
	27	17	12.9	36	2	AAT41762	Ubiquitin	
	28	17	12.9	36	2	AAX78503	Human E1	
	29	17	12.9	36	3	AA61629	Human E1	
C	30	17	12.9	47	3	AZ66388	Human map	
C	31	17	12.9	47	6	ABK41285	Human LSR	
	32	17	12.9	48	2	AAQ69478	Human leu	
	33	17	12.9	48	2	AAT63940	Human LFA	
	34	17	12.9	48	2	AAU17228	Test sequ	
	35	17	12.9	48	6	ABK82719	DNA bindi	
	36	17	12.9	48	10	ADE80258	Duplex o	
C	37	17	12.9	50	2	AAV07319	Nucleotid	
C	38	17	12.9	50	4	AAU33674	Human SNP	
C	39	17	12.9	50	4	AAU30334	Human SNP	
C	40	16.8	12.7	38	4	AAFS4939	PCR prime	
	41	16.8	12.7	40	2	AZ28006	Human lec	
	42	16.8	12.7	40	3	AAU96033	Human lec	
C	43	16.8	12.7	47	2	AAQ28991	Sequence	
	44	16.8	12.7	47	3	AZ67208	Human map	
C	45	16.8	12.7	47	3	AZ68974	Human map	

ALIGNMENTS

RESULT 1

ABL95873
ID ABL95873 standard; DNA; 42 BP.

XX
AC ABL95873;

XX
DT 19-JUN-2002 (first entry)

XX
DE LLPL-related oligonucleotide #2.

XX
KW Recombinant protein production; drug; reagent; food stuff; ss.

XX
OS Unidentified.

XX
FN WO200208417-A1.

XX
PD 31-JAN-2002.

XX
PF 25-JUL-2001; 2001WO-JP006392.

XX
PR 25-JUL-2000; 2000JP-00229064.

XX
PA (TAKE) TAKEDA CHEM IND LTD.

XX
PI Ito T, Tanaka Y, Kondo M;

XX
DR WPI; 2002-179906/23.

XX
PT Production of recombinant proteins in prokaryotes or eukaryotes particularly with target proteins obtainable through gene recombination technique, for use as drugs, reagents, raw materials for industries and feeding stuffs.

XX
PS Example 23; Fig 29; 137pp; Japanese.

XX
CC The present invention relates to a method for producing recombinant proteins. The method comprises preparing a recombinant vector for transforming a host cell before culturing the obtained transformant, assaying expression of the reporter gene and confirming high expression of the reporter gene. The recombinant proteins are useful as drugs, reagents, raw materials for industries and feeding stuffs. Also, the proteins are obtainable on large-scale production. The present sequence was used to illustrate the invention

XX
SQ Sequence 42 BP; 3 A; 16 C; 16 G; 7 T; 0 U; 0 Other;


```

XX AC ABN83043;
XX DT 14-AUG-2002 (first entry)
XX DE Human ankyrin 12 probe 2.
XX KW Human; ankyrin 12; cancer; HIV; probe; ss.
XX OS Homo sapiens.
XX PN CN1331128-A.
XX PD 16-JAN-2002.
XX PF 26-JUN-2000; 2000CN-00116733.
XX PR 26-JUN-2000; 2000CN-00116733.
XX PA (BODE-) BODE GENE DEV CO LTD SHANGHAI.
XX PI Mao Y, Xie Y;
XX DR WPI; 2002-305470/35.
XX PT Polypeptide-human ankyrin 12 and polynucleotide for coding it.
XX PS Example 6; Page 18; 31pp; Chinese.
XX CC The sequence represents a probe used in the invention. The invention
XX CC relates to the novel human ankyrin 12 polypeptide. The polypeptide is
XX CC useful for treating diseases such as cancer and HIV infection. The
XX CC antagonist of the polypeptide and its medical action, and the application
XX CC of the polynucleotide are also disclosed
XX SQ Sequence 41 BP; 8 A; 12 C; 11 G; 10 T; 0 U; 0 Other;

Query Match 14.2%; Score 18.8; DB 6; Length 41;
Best Local Similarity 76.7%; Pred. No. 4.1e+04;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 33 CTGCTGAGTTTGAGCCCTGTCATGCACAC 52
Db 5 CTGCTGAGTGAGCACCCCGTGTGCACAC 34

RESULT 5
ADE03377/c
ID ADE03377 standard; DNA; 36 BP.
XX AC ADE03377;
XX DT 29-JAN-2004 (first entry)
XX DE Human immunoglobulin light chain PCR primer #57.
XX KW antibody; platelet aggregation inhibition; platelet integrin receptor;
XX KW GPIIb/IIIa; activated thrombocyte; thrombosis; myocardial infarction;
XX KW primer; ss; human; PCR.
XX OS Homo sapiens.
XX PN EP1300419-A1.
XX PD 09-APR-2003.
XX PF 05-OCT-2001; 2001EP-00123851.
XX PR 05-OCT-2001; 2001EP-00123851.
XX PA (AFFI-) AFFIMED THERAPEUTICS AG.
XX PI Buettner C, Schwarz M, Knacknuss S, Peter K, Roettgen P;

```

```

PI Little M;
XX DR WPI; 2003-405595/39.
XX PT New antibody, useful for preparing a composition for determining the
XX PT number of activated thrombocytes or for blocking the platelet integrin
XX PT receptor on thrombocytes for treating e.g., thrombosis or myocardial
XX PT infarction.
XX PS Example 1; SEQ ID NO 107; 80pp; English.
XX CC The invention comprises a human antibody for inhibiting platelet
XX CC aggregation by its exclusive binding to the activated state of platelet
XX CC integrin receptor GPIIb/IIIa. The antibody of the invention is useful for
XX CC preparing a diagnostic composition for determining the number of
XX CC activated thrombocytes or for blocking the platelet integrin receptor on
XX CC thrombocytes. The antibody of the invention is useful for treating
XX CC thrombosis or myocardial infarction. The present DNA sequence represents
XX CC a PCR primer that was used in an example of the invention.
XX SQ Sequence 36 BP; 10 A; 12 C; 10 G; 4 T; 0 U; 0 Other;

Query Match 13.8%; Score 18.2; DB 9; Length 36;
Best Local Similarity 87.0%; Pred. No. 5.9e+04;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 46 CAGCCCTGCATGCACACGTTCTG 68
Db 27 CAGCCCTGCCTGACGCTTCTG 5

RESULT 6
AAV60897
ID AAV60897 standard; DNA; 48 BP.
XX AC AAV60897;
XX DT 25-JAN-1999 (first entry)
XX DE Oligonucleotide 910388 for constructing XAB Vh region variants.
XX KW Mutation; mutagenesis; antigen-binding region; monoclonal antibody;
XX KW catalytic site; serine protease; complementarity determining region;
XX KW walk-through; ss.
XX OS Synthetic.
XX OS Homo sapiens.
XX PN US5798208-A.
XX PD 25-AUG-1998.
XX PF 02-NOV-1992; 92US-00930600.
XX PR 05-APR-1990; 90US-00505314.
XX PA (CREA/) CREA R.
XX PI Crea R;
XX DR WPI; 1998-480376/41.
XX PT Mutagenesis of pre-determined gene sequences - useful for systematic
XX PT changes of pre-determined amino acids to see their effect on protein
XX PT activity, and to create gene expression libraries.
XX PS Example 1; Col 23; 33pp; English.
XX CC The invention relates to a method of generating mutations in proteins by
XX CC synthesising a mixture of oligonucleotides in order to alter the codons
XX CC for specific amino acids within a defined region of the protein. Using a
XX CC range of oligonucleotides for the mutations, expression libraries of the
XX CC mutant protein can be constructed. As an example of the method, the

```


PN WO200147944-A2.
XX
PD 05-JUL-2001.
XX
XX
PF 28-DEC-2000; 2000WO-US035498.
XX
XX 28-DEC-1999; 99US-0173419P.
PR 27-DEC-2000; 2000US-00173419.
XX
XX (CURA-) CURAGEN CORP..
XX
XX Shimkets RA, Leach M;
PI
XX
XX WPI; 2001-465210/50.
XX
XX Polymorphic nucleic acids encoding e.g. amylases, cyclins, polymerases,
PT oncogenes and histones, useful for diagnosing and treating, e.g. cancer,
PT autoimmune diseases and infections.
XX
XX Claim 1; Page 2821; 4143pp; English.
XX
XX The present invention relates to oligonucleotides encoding polymorphic
CC variants of proteins related to amylases, amyloid proteins, angiotensin,
CC apoptosis related proteins, cadherin, cyclin, polymerase, oncogenes,
CC histones, kinases, colony stimulating factors, complement related
CC proteins, cytochromes, kinesins, cytokines, interferons, interleukins, G-
CC protein coupled receptors and thioesterases. The present sequence is one
CC such oligonucleotide. The oligonucleotides and the peptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of the proteins listed above.
CC Disorders that may be prevented, diagnosed and/or treated include
CC multifactorial diseases with a genetic component, such as autoimmune
CC diseases (e.g. rheumatoid arthritis, multiple sclerosis, diabetes,
CC systemic lupus erythematosus and Grave's disease), inflammation, cancer
CC (e.g. cancers of the bladder, brain, breast, colon and kidney,
CC leukaemia), diseases of the nervous system and an infection of pathogenic
CC organisms
XX
XX Sequence 50 BP; 15 A; 13 C; 14 G; 8 T; 0 U; 0 Other;
SQ Query Match 13.5%; Score 17.8; DB 4; Length 50;
Best Local Similarity 62.2%; Pred. No. 8.2e+04;
Matches 28; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
QY 63 GTTCTGGCGGCTTGCTACTCGGCTGGATGGAGCGCTCGTCCCT 107
DB 48 GCTCAGAGCTCTAGATTCAAGTCTGCATGCTGGGCTCTGCGCT 4
RESULT 12
AAV02057
ID AAV02057 standard; cDNA; 42 BP.
XX
XX AAV02057;
AC
XX
XX 26-JUN-1998 (first entry)
DT
XX
XX Mutated hCS peptide coding sequence.
DE
XX
XX Corticostatin; somatostatin; hCS-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX
XX Synthetic.
OS
XX
XX WO9746668-A1.
FN
XX
XX 11-DEC-1997.
PD
XX
XX 05-JUN-1997; 97WO-JP001911.
PF
XX
XX Corticostatin; somatostatin; hCS-17 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX
XX Synthetic.
OS
XX
XX WO9746668-A1.
FN
XX
XX 11-DEC-1997.
PD
XX
XX 05-JUN-1997; 97WO-JP001911.
PF
XX
XX 07-JUN-1996; 96JP-00146052.
XX
PR 19-SEP-1996; 96JP-00247710.
PR

PR 15-OCT-1996; 96JP-00272422.
XX
XX (TAKE) TAKEDA CHEM IND LTD.
XX
XX Hinuma S, Fukusumi S, Kitada C;
PI
XX WPI; 1998-042177/04.
DR P-PSDB; AAW44022.
XX
XX Peptide having corticostatin or somatostatin or activity - useful as
PT anticancer and antiulcer agent, and for control of dementia and growth
PT abnormalities.
XX
XX Claim 14; Page 138; 174pp; Japanese.
PS
XX
XX This sequence encodes a mutated hCS peptide, which is a peptide of the
CC invention, and has corticostatin or somatostatin activity. Antibodies
CC recognising hCS-17 can be used to screen for a compound that modulates, and
CC i.e. an agonist or antagonist, the binding of hCS-17 to its receptor, and
CC to assay for hCS-17, e.g. diagnosis. hCS-17, the DNA encoding it or a
CC receptor agonist or antagonist can be used to treat and prevent hormone-
CC producing tumours (e.g. tumours producing gastrin or insulin), gastric
CC ulcers and dementia, regulate sleep and control growth disorders (e.g.
CC acromegaly, gigantism and dwarfism). They can also be used to regulate
CC hormone secretion and the digestive system (e.g. to treat diabetes), and
CC as tumour multiplication or neural inhibitors
XX
XX Sequence 42 BP; 7 A; 15 C; 8 G; 12 T; 0 U; 0 Other;
SQ Query Match 13.3%; Score 17.6; DB 2; Length 42;
Best Local Similarity 65.0%; Pred. No. 9.1e+04;
Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
QY 48 GCCCTGCATGCACAGTCTCGCGGCTTGCTACTCGGC 87
DB 3 GCCCTGCAGGAACCTCTTCTGGAAGACCTCTCTCTGTC 42
RESULT 13
AAV02046
ID AAV02046 standard; cDNA; 45 BP.
XX
XX AAV02046;
AC
XX
XX 26-JUN-1998 (first entry)
DT
XX
XX hCS-15 peptide coding sequence.
DE
XX
XX Corticostatin; somatostatin; hCS-15 peptide; hormone-producing tumour;
KW gastric ulcer; dementia; growth disorder; hormone secretion regulation;
KW digestive system regulation; neural inhibitor; therapy; ds.
XX
XX Synthetic.
OS
XX
XX WO9746668-A1.
FN
XX
XX 11-DEC-1997.
PD
XX
XX 05-JUN-1997; 97WO-JP001911.
PF
XX
XX 07-JUN-1996; 96JP-00146052.
PR 19-SEP-1996; 96JP-00247710.
PR 15-OCT-1996; 96JP-00272422.
XX
XX (TAKE) TAKEDA CHEM IND LTD.
XX
XX Hinuma S, Fukusumi S, Kitada C;
PI
XX WPI; 1998-042177/04.
DR P-PSDB; AAW44019.
XX
XX Peptide having corticostatin or somatostatin or activity - useful as
PT anticancer and antiulcer agent, and for control of dementia and growth
PT abnormalities.

CC organisms

XX

SQ Sequence 50 BP; 12 A; 9 C; 14 G; 15 T; 0 U; 0 Other;

Query Match 13.3%; Score 17.6; DB 4; Length 50;

Best Local Similarity 65.0%; Pred. No. 9.4e+04;

Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 30 CGACTGCGTGAGTTTGCAGCCCTGCATGCGACACCGTTCTTGC 69

Db 6 CAACTGTGTGAGTGTGATAGCTGCTGCCACCTGTTTGC 45

Search completed: May 26, 2004, 05:53:46
Job time : 114.477 secs


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1  RESULT 3
2  US-08-457-918-18/c
3  ; Sequence 18, Application US/08457918
4  ; Patent No. 6117655
5  ; GENERAL INFORMATION:
6  ; APPLICANT: Capon, Daniel J.
7  ; APPLICANT: Gregory, Timothy J.
8  ; TITLE OF INVENTION: Adhesion Variants
9  ; NUMBER OF SEQUENCES: 25
10 ; CORRESPONDENCE ADDRESS:
11 ; ADDRESSEE: Genentech, Inc.
12 ; STREET: 460 Point San Bruno Blvd
13 ; CITY: South San Francisco
14 ; STATE: California
15 ; COUNTRY: USA
16 ; ZIP: 94080
17 ; COMPUTER READABLE FORM:
18 ; MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
19 ; COMPUTER: IBM PC compatible
20 ; OPERATING SYSTEM: PC-DOS/MS-DOS
21 ; SOFTWARE: pacin (Genentech)
22 ; CURRENT APPLICATION DATA:
23 ; APPLICATION NUMBER: US/08/457,918

```

```
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/250785
/ FILING DATE: 28-SEP-1989
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/104329
/ FILING DATE: 02-OCT-1987
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Hasak, Janet E.
/ REGISTRATION NUMBER: 28,616
/ REFERENCE/DOCKET NUMBER: 444PIC2
/ TELEPHONE: 415/225-1896
/ TELEFAX: 415/952-9881
/ TELEX: 910/371-7168
/ INFORMATION FOR SEQ ID NO: 15:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 47 bases
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/
US-08-236-311-15

Query Match 14.4%; Score 19; DB 1; Length 47;
Best Local Similarity 71.4%; Pred. No. 5.2e+03;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 74 CTTGCTACTCGGCTGGATGGAGCGCTCGTCCCTG 108
Db 12 CTTGCTTCTGTGCTGCACTGGCGCTCCCTCCAG 46

RESULT 5
US-08-457-918-15
/ Sequence 15, Application US/08457918
/ Patent No. 6117555
/ GENERAL INFORMATION:
/ APPLICANT: Capon, Daniel J.
/ TITLE OF INVENTION: Gregory, Timothy J.
/ NUMBER OF SEQUENCES: 25
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Genentech, Inc.
/ STREET: 460 Point San Bruno Blvd
/ CITY: South San Francisco
/ STATE: California
/ COUNTRY: USA
/ ZIP: 94080
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: path (Genentech)
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/457,918
/ FILING DATE: 1-JUN-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 08/236311
/ FILING DATE: 02-MAY-1994
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/936190
/ FILING DATE: 26-AUG-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/842777
/ FILING DATE: 18-FEB-1992
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/250785
/ FILING DATE: 28-SEP-1988
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 07/104329
/ FILING DATE: 02-OCT-1987
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Kubinec, Jeffrey S.
```

```
/ REGISTRATION NUMBER: 36,575
/ REFERENCE/DOCKET NUMBER: P0444PIC3
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 415/225-8228
/ TELEFAX: 415/952-9881
/ TELEX: 910/371-7168
/ INFORMATION FOR SEQ ID NO: 15:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 47 bases
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/
US-08-457-918-15

Query Match 14.4%; Score 19; DB 3; Length 47;
Best Local Similarity 71.4%; Pred. No. 5.2e+03;
Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 74 CTTGCTACTCGGCTGGATGGAGCGCTCGTCCCTG 108
Db 12 CTTGCTTCTGTGCTGCACTGGCGCTCCCTCCAG 46

RESULT 6
US-08-452-724A-20
/ Sequence 20, Application US/08452724A
/ Patent No. 5830650
/ GENERAL INFORMATION:
/ APPLICANT: Crea, Roberto
/ TITLE OF INVENTION: Walk-Through Mutagenesis
/ NUMBER OF SEQUENCES: 59
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
/ STREET: 2 Militia Drive
/ CITY: Lexington
/ STATE: MA
/ COUNTRY: USA
/ ZIP: 02173
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Floppy disk
/ COMPUTER: IBM PC compatible
/ OPERATING SYSTEM: PC-DOS/MS-DOS
/ SOFTWARE: Patent In Release #1.0, Version #1.30
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/452,724A
/ FILING DATE: 30-MAY-1995
/ CLASSIFICATION: 435
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/930,600
/ FILING DATE: 05-APR-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: PCT/US91/02362
/ FILING DATE: 05-APR-1991
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: US 07/505,314
/ FILING DATE: 05-APR-1990
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Brook Esq., David E.
/ REGISTRATION NUMBER: 22,592
/ REFERENCE/DOCKET NUMBER: RC90-01AZ
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: (617) 861-6240
/ TELEFAX: (617) 861-9540
/ INFORMATION FOR SEQ ID NO: 20:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 48 base pairs
/ TYPE: nucleic acid
/ STRANDEDNESS: single
/ TOPOLOGY: unknown
/
US-08-452-724A-20

Query Match 13.8%; Score 18.2; DB 2; Length 48;
Best Local Similarity 48.9%; Pred. No. 8.8e+03;
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Matches	23;	Conservative	8;	Mismatches	16;	Indels	0;	Gaps	0;
QY	64	TTCTCGCGGCTTCTACTCGGGTGGATGGAGCGTCTGCTCCTGTG	110						
DB	1	TACTCGCGCGTARCTCTCTWTRGCAGCASTTSGTCTCKMCKYTTG	47						
RESULT	7								
US-08-453-623-20									
;	Sequence 20,	Application US/08453623							
;	Patent No. 6649340								
;	GENERAL INFORMATION:								
;	APPLICANT: Crea, Roberto								
;	TITLE OF INVENTION: Walk-Through Mutagenesis								
;	NUMBER OF SEQUENCES: 59								
;	CORRESPONDENCE ADDRESS:								
;	ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.								
;	STREET: 2 Militia Drive								
;	CITY: Lexington								
;	STATE: MA								
;	COUNTRY: USA								
;	ZIP: 02173								
;	COMPUTER READABLE FORM:								
;	MEDIUM TYPE: Floppy disk								
;	COMPUTER: IBM PC compatible								
;	OPERATING SYSTEM: PC-DOS/MS-DOS								
;	SOFTWARE: Patent In Release #1.0, Version #1.30								
;	CURRENT APPLICATION DATA:								
;	APPLICATION NUMBER: US/08/453,623								
;	FILING DATE: 30-May-1995								
;	CLASSIFICATION: <Unknown>								
;	PRIOR APPLICATION DATA:								
;	APPLICATION NUMBER: US 07/930,600								
;	FILING DATE: 05-APR-1991								
;	APPLICATION NUMBER: PCT/US91/02362								
;	FILING DATE: 05-APR-1991								
;	APPLICATION NUMBER: US 07/505,314								
;	FILING DATE: 05-APR-1990								
;	ATTORNEY/AGENT INFORMATION:								
;	NAME: Brook, David E.								
;	REGISTRATION NUMBER: 22,592								
;	REFERENCE/DOCKET NUMBER: RC90-01AY								
;	TELECOMMUNICATION INFORMATION:								
;	TELEPHONE: (617) 861-6240								
;	TELEFAX: (617) 861-9540								
;	INFORMATION FOR SEQ ID NO: 20:								
;	SEQUENCE CHARACTERISTICS:								
;	LENGTH: 48 base pairs								
;	TYPE: nucleic acid								
;	STRANDEDNESS: single								
;	TOPOLOGY: unknown								
;	SEQUENCE DESCRIPTION: SEQ ID NO: 20:								
US-08-453-623-20									
Query Match	13.8%;	Score 18.2;	DB 4;	Length 48;					
Best Local Similarity	48.9%;	Pred. No. 8.8e+03;							
Matches	23;	Conservative	8;	Mismatches	16;	Indels	0;	Gaps	0;
QY	64	TTCTCGCGGCTTCTACTCGGGTGGATGGAGCGTCTGCTCCTGTG	110						
DB	1	TACTCGCGCGTARCTCTCTWTRGCAGCASTTSGTCTCKMCKYTTG	47						
RESULT	8								
US-08-602-716A-8/c									
;	Sequence 8,	Application US/08602716A							
;	Patent No. 5962664								
;	GENERAL INFORMATION:								
;	APPLICANT: FRIEDHOFF, Arnold J.								
;	APPLICANT: BASHAM, Daryl A.								
;	APPLICANT: MILLER, Jeanette C.								
;	TITLE OF INVENTION: PSYCHOSIS PROTECTING NUCLEIC ACID,								
;	TITLE OF INVENTION: PEPTIDES, COMPOSITIONS AND METHODS OF USE								

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/191,171
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/494,104
FILING DATE: 23-JUN-1995
APPLICATION NUMBER: AU PK9490/91
FILING DATE: 14-NOV-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: AU PCT/AU92/00611
FILING DATE: 12-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/084,254
FILING DATE: 07-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Digiglio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8978Z
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Oligonucleotide DNA
US-09-191-171-1

Query Match 13.6%; Score 18; DB 3; Length 47;
Best Local Similarity 64.3%; Pred. No. 1e+04;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 61 ACCTTCTCGGGCTTGTCTACTCGGCTGGATGAGCGCTCG 102
Db 47 ACGTTGTCAAAGTCGTCTGCTCGGCTCGTCCAGGCTCG 6

RESULT 10
US-09-385-707-1/c
Sequence 1, Application US/09385707
Patent No. 6238662
GENERAL INFORMATION:
APPLICANT: SCOTT, Hamish S.
APPLICANT: ANSON, Donald S.
APPLICANT: ORSBORN, Annette M.
APPLICANT: NELSON, Paul V.
APPLICANT: MORRIS, Charles P.
APPLICANT: CLEMENTS, Peter R.
APPLICANT: HOPWOOD, John J.
TITLE OF INVENTION: SYNTHETIC ALPHA-L-IDURONIDASE AND GENETIC
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: SCULLY SCOTT MURPHY & PRESSER
STREET: 400 Garden City Plaza
CITY: Garden City
STATE: New York
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,707

FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/494,104
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Digiglio, Frank S.
REGISTRATION NUMBER: 31,346
REFERENCE/DOCKET NUMBER: 8978Z
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-742-4343
TELEFAX: 516-742-4366
TELEX: 230 901 SANS UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Oligonucleotide DNA
US-09-385-707-1

Query Match 13.6%; Score 18; DB 3; Length 47;
Best Local Similarity 64.3%; Pred. No. 1e+04;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 61 ACCTTCTCGGGCTTGTCTACTCGGCTGGATGAGCGCTCG 102
Db 47 ACGTTGTCAAAGTCGTCTGCTCGGCTCGTCCAGGCTCG 6

RESULT 11
US-09-639-696C-1/c
Sequence 1, Application US/09639696C
Patent No. 6524835
GENERAL INFORMATION:
APPLICANT: SCOTT, Hamish S.
APPLICANT: ANSON, Donald S.
APPLICANT: ORSBORN, Annette M.
APPLICANT: NELSON, Paul V.
APPLICANT: CLEMENTS, Peter R.
APPLICANT: MORRIS, Charles P.
APPLICANT: HOPWOOD, John J.
TITLE OF INVENTION: SYNTHETIC ALPHA-L-IDURONIDASE AND GENETIC
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON PEABODY LLP
STREET: 990 Stewart Avenue
CITY: Garden City
STATE: New York
COUNTRY: USA
ZIP: 11530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/639,696C
FILING DATE: 16-Aug-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 09/191,171
FILING DATE: 13-NOV-1998
APPLICATION NUMBER: US 08/494,104
FILING DATE: 23-JUN-1995
APPLICATION NUMBER: AU PK9490/91
FILING DATE: 14-NOV-1991
APPLICATION NUMBER: AU PCT/AU92/00611
FILING DATE: 12-NOV-1992
APPLICATION NUMBER: US 08/084,254
FILING DATE: 07-JUL-1993

ATTORNEY/AGENT INFORMATION:
NAME: Pokalsky, Ann R.
REGISTRATION NUMBER: 34,697
REFERENCE/DOCKET NUMBER: 2249/304
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-832-7572
TELEFAX: 516-832-7555
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Oligonucleotide DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-639-696C-1

Query Match 13.6%; Score 18; DB 4; Length 47;
Best Local Similarity 64.3%; Pred. No. 1e+04;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 61 ACGTTCGCGCGGCTGTCTACTCGGCTGGATGAGCGCTCG 102
|||||
Db 47 ACGTTCGGAAGTCGTCTGCTCGGCTGGTCCAGGCTCTCG 6

RESULT 12
US-09-581-105-9/c
Sequence 9, Application US/09581105
Patent No. 6603062
GENERAL INFORMATION:
APPLICANT: Schmidt, et al.
TITLE OF INVENTION: Method For Producing Transgenic Plants With Modified 5-Aminolevulinic Acid Biosynthesis, And Method For Identifying 5-Aminolevulinic Acid Biosynthesis
TITLE OF INVENTION: Acid Biosynthesis, And Method For Identifying 5-Aminolevulinic Acid Biosynthesis
TITLE OF INVENTION: Effectors
FILE REFERENCE: 514413-3827
CURRENT APPLICATION NUMBER: US/09/581.105
CURRENT FILING DATE: 2000-08-31
PRIOR APPLICATION NUMBER: PCT/EP98/08028
PRIOR FILING DATE: 1998-12-10
PRIOR APPLICATION NUMBER: GERMANY 197 54 929.2
PRIOR FILING DATE: 1997-12-10
NUMBER OF SEQ ID NOS: 10
SOFTWARE: Patentin version 3.0
SEQ ID NO 9
LENGTH: 32
TYPE: DNA
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: primer ALAS1
US-09-581-105-9

Query Match 13.2%; Score 17.4; DB 4; Length 32;
Best Local Similarity 77.8%; Pred. No. 1.4e+04;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 35 GCGTGAGTTTGCAGCCCTGCATGCACA 61
|||||
Db 30 GTGCCAGATTGTAGTCTCTGCATGCACA 4

RESULT 13
5240847-33
Patent No. 5240847
APPLICANT: HECKL, KONRAD; SPEVAK, WALTER; OSTERMANN, ELINBORG;
ZOPHEL, ANDREAS; KRYSTEK, EDLTRAUD; MAURER-FOGY, INGRID;
WICHE-CASTANON, MARIA J.; STRATOWA, CHRISTIAN; HAUPTWANN, RUDOLF
TITLE OF INVENTION: HUMAN MANGANESE SUPEROXIDE DISMUTASE
(HMN-SOD)
NUMBER OF SEQUENCES: 34
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/167,261
FILING DATE: 11-MAR-1988

ATTORNEY/AGENT INFORMATION:
NAME: Pokalsky, Ann R.
REGISTRATION NUMBER: 34,697
REFERENCE/DOCKET NUMBER: 2249/304
TELECOMMUNICATION INFORMATION:
TELEPHONE: 516-832-7572
TELEFAX: 516-832-7555
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 47 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: Oligonucleotide DNA
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-639-696C-1

Query Match 13.6%; Score 18; DB 4; Length 47;
Best Local Similarity 64.3%; Pred. No. 1e+04;
Matches 27; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 61 ACGTTCGCGCGGCTGTCTACTCGGCTGGATGAGCGCTCG 102
|||||
Db 47 ACGTTCGGAAGTCGTCTGCTCGGCTGGTCCAGGCTCTCG 6

RESULT 12
US-09-581-105-9/c
Sequence 9, Application US/09581105
Patent No. 6603062
GENERAL INFORMATION:
APPLICANT: Schmidt, et al.
TITLE OF INVENTION: Method For Producing Transgenic Plants With Modified 5-Aminolevulinic Acid Biosynthesis, And Method For Identifying 5-Aminolevulinic Acid Biosynthesis
TITLE OF INVENTION: Acid Biosynthesis, And Method For Identifying 5-Aminolevulinic Acid Biosynthesis
TITLE OF INVENTION: Effectors
FILE REFERENCE: 514413-3827
CURRENT APPLICATION NUMBER: US/09/581.105
CURRENT FILING DATE: 2000-08-31
PRIOR APPLICATION NUMBER: PCT/EP98/08028
PRIOR FILING DATE: 1998-12-10
PRIOR APPLICATION NUMBER: GERMANY 197 54 929.2
PRIOR FILING DATE: 1997-12-10
NUMBER OF SEQ ID NOS: 10
SOFTWARE: Patentin version 3.0
SEQ ID NO 9
LENGTH: 32
TYPE: DNA
ORGANISM: Artificial
FEATURE:
OTHER INFORMATION: primer ALAS1
US-09-581-105-9

Query Match 13.2%; Score 17.4; DB 4; Length 32;
Best Local Similarity 77.8%; Pred. No. 1.4e+04;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 35 GCGTGAGTTTGCAGCCCTGCATGCACA 61
|||||
Db 30 GTGCCAGATTGTAGTCTCTGCATGCACA 4

RESULT 13
5240847-33
Patent No. 5240847
APPLICANT: HECKL, KONRAD; SPEVAK, WALTER; OSTERMANN, ELINBORG;
ZOPHEL, ANDREAS; KRYSTEK, EDLTRAUD; MAURER-FOGY, INGRID;
WICHE-CASTANON, MARIA J.; STRATOWA, CHRISTIAN; HAUPTWANN, RUDOLF
TITLE OF INVENTION: HUMAN MANGANESE SUPEROXIDE DISMUTASE
(HMN-SOD)
NUMBER OF SEQUENCES: 34
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/167,261
FILING DATE: 11-MAR-1988

SEQ ID NO: 33:
LENGTH: 40
5240847-33

Query Match 13.2%; Score 17.4; DB 6; Length 40;
Best Local Similarity 68.6%; Pred. No. 1.4e+04;
Matches 24; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3 ATGCATCATCTGCCAGGACCTGCTGCAGGACTGCG 37
|||||
Db 1 AAGCACTCTTTGCCAAGACTTGCCATACGACTACG 35

RESULT 14
PCT-US95-13975-35/c
Sequence 35, Application PC/TUS9513975
GENERAL INFORMATION:
APPLICANT: Cochran, Mark D.
APPLICANT: McDonnell, Michael W.
TITLE OF INVENTION: Recombinant Feline Herpes virus
NUMBER OF SEQUENCES: 73
CORRESPONDENCE ADDRESS:
ADDRESSER: John P. White
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM 330 466 DX2
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/13975
FILING DATE: 26-OCT-1995
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/329,883
FILING DATE: 26-OCT-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 39118-PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)278-0400
TELEFAX: (212)391-0525
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 46 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Human cytomegalovirus; Feline leukemia virus
PCT-US95-13975-35

Query Match 13.0%; Score 17.2; DB 5; Length 46;
Best Local Similarity 65.8%; Pred. No. 1.7e+04;
Matches 25; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 82 TCGGGCTGGATGAGCGCTCGTCCCTGTGCTCTACTG 119
|||||
Db 41 TCGGGCCCATTTGATCCATCGTCCCGGTGTCTTCTATG 4

RESULT 15
5196308-1/c
Patent No. 5196308

;
; APPLICANT: NEPOM, GERALD T.; NEPOM, BARBARA S.
; TITLE OF INVENTION: METHODS FOR IDENTIFYING THE DQW3.2
; ALLELE ASSOCIATED WITH INCREASED RISK OF INSULIN-DEPENDENT
; DIABETES MELLITUS
; NUMBER OF SEQUENCES: 2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/325,058
; FILING DATE: 13-MAR-1989
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 745,321
; FILING DATE: 14-JUN-1985
; SEQ ID NO: 1:
; LENGTH: 46
5196308-1

Query Match 13.0%; Score 17.2; DB 6; Length 46;
Best Local Similarity 73.3%; Pred. No. 1.7e+04;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;
QY 87 CTGGATGGAGCGCTCGTCCCTGTGTCTTAC 116
Db 30 CTGGATGGAGATGGTCACTGTGGGTCC 1

Search completed: May 26, 2004, 09:20:41
Job time : 26.4982 secs

Db 5 AGGTCCTGCAGCATGATGGYACCAAGTTTGAAGCCTCCATCCA 47

RESULT 2

US-10-097-044A-18/c

Sequence 18, Application US/10097044A

Publication No. US20030143220A1

GENERAL INFORMATION:

APPLICANT: Capon, Daniel J.

Gregory, Timothy J.

TITLE OF INVENTION: Adhesion Variants

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/097,044A

FILING DATE: 28-May-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/457,918

FILING DATE: 1-JUN-1995

APPLICATION NUMBER: 08/236311

FILING DATE: 02-MAY-1994

APPLICATION NUMBER: 07/936190

FILING DATE: 26-AUG-1992

APPLICATION NUMBER: 07/842777

FILING DATE: 18-FEB-1992

APPLICATION NUMBER: 07/250785

FILING DATE: 28-SEP-1988

APPLICATION NUMBER: 07/104329

FILING DATE: 02-OCT-1987

ATTORNEY/AGENT INFORMATION:

NAME: Kubinec, Jeffrey S.

REGISTRATION NUMBER: 36,575

REFERENCE/DOCKET NUMBER: P0444P1C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-8228

TELEFAX: 415/952-9881

TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 18:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 18:

US-10-097-044A-18

Query Match 14.5%; Score 19.2; DB 15; Length 47;

Best Local Similarity 67.5%; Pred. No. 1.2e-04;

Matches 27; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 74 CTTGCTACTCGGCTGGATGGAGCGCTGTCCTGTCGCC 113

Db 46 CTTGCTTCTGGTGTGCAACTGGCGCTCTCTCCAGACCC 7

RESULT 3

US-10-097-044A-15

Sequence 15, Application US/10097044A

Publication No. US20030143220A1

GENERAL INFORMATION:

APPLICANT: Capon, Daniel J.

Gregory, Timothy J.

TITLE OF INVENTION: Adhesion Variants

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESS:

ADDRESSEE: Genentech, Inc.

STREET: 460 Point San Bruno Blvd

CITY: South San Francisco

STATE: California

COUNTRY: USA

ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/10/097,044A

FILING DATE: 28-May-2002

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/457,918

FILING DATE: 1-JUN-1995

APPLICATION NUMBER: 08/236311

FILING DATE: 02-MAY-1994

APPLICATION NUMBER: 07/936190

FILING DATE: 26-AUG-1992

APPLICATION NUMBER: 07/842777

FILING DATE: 18-FEB-1992

APPLICATION NUMBER: 07/250785

FILING DATE: 28-SEP-1988

APPLICATION NUMBER: 07/104329

FILING DATE: 02-OCT-1987

ATTORNEY/AGENT INFORMATION:

NAME: Kubinec, Jeffrey S.

REGISTRATION NUMBER: 36,575

REFERENCE/DOCKET NUMBER: P0444P1C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415/225-8228

TELEFAX: 415/952-9881

TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 47 bases

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 15:

US-10-097-044A-15

Query Match 14.4%; Score 19; DB 15; Length 47;

Best Local Similarity 71.4%; Pred. No. 1.4e-04;

Matches 25; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 74 CTTGCTACTCGGCTGGATGGAGCGCTGTCCTGCTG 108

Db 12 CTTGCTTCTGGTGTGCAACTGGCGCTCTCTCCAG 46

RESULT 4

US-10-371-404-20

Sequence 20, Application US/10371404

Publication No. US20030194807A1

GENERAL INFORMATION:

APPLICANT: Crea, Roberto

TITLE OF INVENTION: Walk-Through Mutagenesis

NUMBER OF SEQUENCES: 59

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: 2 Militia Drive

CITY: Lexington

STATE: MA

COUNTRY: USA

ZIP: 02173

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/371,404
FILING DATE: 20-Feb-2003
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/453,623
FILING DATE: 30-May-1995
APPLICATION NUMBER: US 07/930,600
FILING DATE: 05-APR-1991
APPLICATION NUMBER: PCT/US91/02362
FILING DATE: 05-APR-1991
APPLICATION NUMBER: US 07/505,314
FILING DATE: 05-APR-1990
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: RC90-01AY
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 861-6240
TELEFAX: (617) 861-9540
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 48 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: unknown
SEQUENCE DESCRIPTION: SEQ ID NO: 20:
US-10-371-404-20

Query Match 13.8%; Score 18.2; DB 15; Length 48;
Best Local Similarity 48.9%; Pred. No. 2.5e+04;
Matches 23; Conservative 8; Mismatches 16; Indels 0; Gaps 0;

QY 64 TTCTGCGGGCTTCTACTCGGCTGATGAGCGCTCGTCCCTGTG 110
DB 1 TACTGCGGGCTARCTNCTTRGCGAGCTTSGTMTCTYCKMKYTTG 47

RESULT 5
US-10-131-827-1070
; Sequence 1070, Application US/10131827
; Publication No. US20040009479A1
; GENERAL INFORMATION:
; APPLICANT: Wohlgemuth, Jay
; APPLICANT: Fry, Kirk
; APPLICANT: Woodward, Robert
; APPLICANT: Ly, Ngoc
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR DIAGNOSING AND MONITORING AUTOIMMUNE
; TITLE OF INVENTION: CHRONIC INFLAMMATORY DISEASES
; FILE REFERENCE: 50661200120
; CURRENT APPLICATION NUMBER: US/10/131,827
; CURRENT FILING DATE: 2002-09-06
; PRIOR APPLICATION NUMBER: US 10/006,290
; PRIOR FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: US 60/296,764
; PRIOR FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 9090
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1070
; LENGTH: 50
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-131-827-1070

Query Match 13.6%; Score 18; DB 16; Length 50;
Best Local Similarity 70.6%; Pred. No. 2.9e+04;
Matches 24; Conservative 0; Mismatches 10; Indels 0; Gaps 0;

QY 51 CTGCATGCACACAGTTTCTGCGGGCTTGTCTACTCG 84
DB 10 CTGTGTGAAGTGTCTTCTGCACTGCTTGTCTAATGG 43
RESULT 6
US-10-076-802-81/c
; Sequence 81, Application US/10076802
; Publication No. US20030162249A1
; GENERAL INFORMATION:
; APPLICANT: Gray, Jeff
; APPLICANT: Buechler, Joe
; APPLICANT: Veeramallu, Uday K
; TITLE OF INVENTION: EUKARYOTIC SIGNAL SEQUENCES FOR PROKARYOTIC EXPRESSION
; FILE REFERENCE: 014907-004700US
; CURRENT APPLICATION NUMBER: US/10/076,802
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 81
; LENGTH: 44
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Murine 5'
; OTHER INFORMATION: Heavy Chain Specific PCR Primer 188
US-10-076-802-81
Query Match 13.5%; Score 17.8; DB 15; Length 44;
Best Local Similarity 75.9%; Pred. No. 3.4e+04;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 20 ACCTGCTGCACGACTGCGTGAGTTTGCAG 48
DB 35 ACCAGCTGCACCTTCCGCTTGAGCCTGCAG 7

RESULT 7
US-10-076-802-110/c
; Sequence 110, Application US/10076802
; Publication No. US20030162249A1
; GENERAL INFORMATION:
; APPLICANT: Gray, Jeff
; APPLICANT: Buechler, Joe
; APPLICANT: Veeramallu, Uday K
; TITLE OF INVENTION: EUKARYOTIC SIGNAL SEQUENCES FOR PROKARYOTIC EXPRESSION
; FILE REFERENCE: 014907-004700US
; CURRENT APPLICATION NUMBER: US/10/076,802
; CURRENT FILING DATE: 2002-02-13
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 44
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Murine 5'
; OTHER INFORMATION: Heavy Chain Specific PCR Primer 208
US-10-076-802-110

Query Match 13.5%; Score 17.8; DB 15; Length 44;
Best Local Similarity 75.9%; Pred. No. 3.4e+04;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 20 ACCTGCTGCACGACTGCGTGAGTTTGCAG 48
DB 35 ACCAGCTGCACCTTCCGCTTGAGCCTGCAG 7

RESULT 8
US-10-076-802-111/c
; Sequence 111, Application US/10076802
; Publication No. US20030162249A1

; PRIOR FILING DATE: 2000-08-31
; PRIOR APPLICATION NUMBER: PCT/EP98/08028
; PRIOR FILING DATE: 1998-12-10
; PRIOR APPLICATION NUMBER: GERMANY 197 54 929.2
; PRIOR FILING DATE: 1997-12-10
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 9
; LENGTH: 32
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: primer ALASI
US-10-458-568-9

Query Match 13.2%; Score 17.4; DB 13; Length 32;
Best Local Similarity 77.8%; Pred. No. 4.4e+04;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Qy 35 CGGTGAGTTTCAGCCCTGCGATGCACA 61
Db 30 GTGCCAGATTGTAGTCTCTGCGATGCACA 4

RESULT 13

US-10-216-054A-14
; Sequence 14, Application US/10216054A
; Publication No. US20030144232A1
; GENERAL INFORMATION:
; APPLICANT: CANCER RESEARCH VENTURES LIMITED
; APPLICANT: AGAMI, Reuven
; APPLICANT: BRUMMELKAMP, Thijn
; TITLE OF INVENTION: EXPRESSION SYSTEM
; FILE REFERENCE: KILBURN1100-1
; CURRENT APPLICATION NUMBER: US/10/216,054A
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/377,482
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: UK 0130955.8
; PRIOR FILING DATE: 2001-12-24
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 49
; TYPE: RNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Predicted stem loop transcript

Query Match 13.2%; Score 17.4; DB 15; Length 49;
Best Local Similarity 57.1%; Pred. No. 4.6e+04;
Matches 20; Conservative 4; Mismatches 11; Indels 0; Gaps 0;

Qy 83 CGGCTGATGAGCGCTCGCTGCTGCTCTACC 117
Db 12 CGGGCCGAUCAAAGAGAUCCGCCGAGUCCUGCC 46

RESULT 14

US-10-324-184-14
; Sequence 14, Application US/10324184
; Publication No. US20030144239A1
; GENERAL INFORMATION:
; APPLICANT: CANCER RESEARCH VENTURES LIMITED
; APPLICANT: AGAMI, Reuven
; APPLICANT: BRUMMELKAMP, Thijn
; TITLE OF INVENTION: EXPRESSION SYSTEM
; FILE REFERENCE: KILBURN1100-2
; CURRENT APPLICATION NUMBER: US/10/324,184
; CURRENT FILING DATE: 2002-12-19
; PRIOR APPLICATION NUMBER: US 10/216,054
; PRIOR FILING DATE: 2002-08-09

; PRIOR APPLICATION NUMBER: US 60/377,482
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: UK 0130955.8
; PRIOR FILING DATE: 2001-12-24
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 14
; LENGTH: 49
; TYPE: RNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence of the predicted stem loop transcript generated from
; OTHER INFORMATION: the pSUPER-CDC20 vector as depicted in Figure 4.
US-10-324-184-14

Query Match 13.2%; Score 17.4; DB 15; Length 49;
Best Local Similarity 57.1%; Pred. No. 4.6e+04;
Matches 20; Conservative 4; Mismatches 11; Indels 0; Gaps 0;

Qy 83 CGGCTGATGAGCGCTCGCTGCTGCTCTACC 117
Db 12 CGGGCCGAUCAAAGAGAUCCGCCGAGUCCUGCC 46

RESULT 15

US-10-179-826-3
; Sequence 3, Application US/10179826
; Publication No. US20030235827A1
; GENERAL INFORMATION:
; APPLICANT: McKeown, Brian
; TITLE OF INVENTION: Methods and Compositions for Monitoring Primer Extension and Polyn
; TITLE OF INVENTION: Detection Reactions
; FILE REFERENCE: 13164US
; CURRENT APPLICATION NUMBER: US/10/179,826
; CURRENT FILING DATE: 2002-06-25
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 22
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Primer - organism matches to Ovis aries
US-10-179-826-3

Query Match 13.0%; Score 17.2; DB 16; Length 22;
Best Local Similarity 86.4%; Pred. No. 5e+04;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 8 TCATCTGCCAGGACCTGTGTGCA 29
Db 1 TCATGTGGCAGGAGCTGTGTGCA 22

Search completed: May 26, 2004, 10:22:40
Job time : 577.198 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: May 26, 2004, 05:12:53 ; Search time 916.382 Seconds

(without alignments)
4301.492 Million cell updates/sec

Title: US-10-048-046-1_COPY_997_1128

Perfect score: 132

Sequence: 1 acatgcacatcgcgcagga.....ctaccgcgcgtccgcgtg 132

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues

Total number of hits satisfying chosen parameters: 138346

Minimum DB seq length: 0

Maximum DB seq length: 50

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST.*

1: em_estba.*

2: em_esthum.*

3: em_estin.*

4: em_estmu.*

5: em_estov.*

6: em_estpl.*

7: em_estro.*

8: em_htc.*

9: gb_est1.*

10: gb_est2.*

11: gb_htc.*

12: gb_est3.*

13: gb_est4.*

14: gb_est5.*

15: em_estfun.*

16: em_estom.*

17: em_gss_hum.*

18: em_gss_inv.*

19: em_gss_pln.*

20: em_gss_vrt.*

21: em_gss_fun.*

22: em_gss_man.*

23: em_gss_mus.*

24: em_gss_pro.*

25: em_gss_rod.*

26: em_gss_phg.*

27: em_gss_vrl.*

28: gb_gss1.*

29: gb_gss2.*

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
c 1	19.2	14.5	49	9	AI284473
2	18.8	14.2	42	28	AZ788565
3	18.6	14.1	50	9	AU105739
4	18.6	14.1	50	9	AU105740

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

5	18.6	14.1	50	9	AU105741
6	18.2	13.8	49	9	AA886434
c 7	18.2	13.8	50	9	AU105564
8	17.8	13.5	50	28	AZ432474
c 10	17.6	13.3	49	9	AI941380
11	17.4	13.2	48	28	AZ485794
12	17.4	13.2	50	28	BH624322
c 13	17.2	13.0	46	14	H45385
c 14	17.2	13.0	49	29	CG805551
15	17.2	13.0	50	9	AU105249
c 16	17.2	13.0	50	9	AU107541
17	17.2	13.0	50	28	AZ432474
c 18	17.2	12.9	50	9	AA948106
c 19	17.2	12.9	50	9	AU103176
c 20	17.2	12.9	50	9	AU105454
c 21	17.2	12.9	50	9	AU105455
c 22	17.2	12.9	50	9	AU105456
c 23	16.8	12.7	50	9	AL788155
24	16.8	12.7	50	9	AU102427
c 25	16.6	12.6	43	9	AI744377
26	16.6	12.6	47	28	AZ795054
27	16.6	12.6	49	9	AA813480
28	16.6	12.6	50	9	AU105247
29	16.6	12.6	50	9	AU105248
30	16.6	12.6	50	9	AU105258
c 31	16.6	12.6	50	29	CG868958
c 32	16.4	12.4	35	29	DR20D78
c 33	16.4	12.4	37	14	H46233
c 34	16.4	12.4	42	9	AA878619
c 35	16.4	12.4	46	10	BE729845
c 36	16.4	12.4	46	28	BX171949
37	16.4	12.4	49	28	BH852307
38	16.4	12.4	49	28	BH852314
c 39	16.4	12.4	50	9	AU105060
c 40	16.2	12.3	42	29	DMES45174
41	16.2	12.3	43	12	BG707367
42	16.2	12.3	46	12	BG177798
43	16.2	12.3	48	28	AZ311191
c 44	16.2	12.3	50	9	AU102902
c 45	16.2	12.3	50	9	AU105570

ALIGNMENTS

RESULT 1
AI284473/c
LOCUS
DEFINITION
AI284473.1 49 bp mRNA linear EST 23-NOV-1998
qu82a12.x1 NCI CGAP Eso2 Homo sapiens cDNA clone IMAGE:197858 3',
similar to SW:FRP3 HUMAN P02814 PROLINE-RICH PEPTIDE P-B. ; contains
element MER22 repetitive element ;, mRNA sequence.

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLES
JOURNAL
COMMENT

AI284473
AI284473.1 GI:3922706
EST.
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 49)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Nan Hu, M.D., Ph.D., Mark Roth, M.D., Phillip
Taylor, M.D., Michael R. Emmert-Buck, M.D., Ph.D.
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone Distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E.B. Consortium/LLNL at:

www-bio.lnl.gov/bbrp/image/image.html

Trace considered overall poor quality

Seq primer: -40UP from Gibco

High quality sequence stop: 1.

FEATURES

Location/Qualifiers
1..49
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:1978558"
/tissue_type="squamous cell carcinoma"
/lab_host="DH10B"
/clone_lib="NCI CGAP Eso2"
/note="Organ: esophagus; Vector: pCMV-SPORT6; Site 1:
Sal1; Site 2: NotI; Cloned unidirectionally. Primer:
Oligo dr. Average insert size 1.1 Kb. Life Technologies
catalog #: 11502-010"

ORIGIN

Query Match 14.5%; Score 19.2; DB 9; Length 49;
Best Local Similarity 62.5%; Pred. No. 5e+05;
Matches 30; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 84 GGGCTGATGAGGCGTCGTCCTGCTCTACTGCGCTGTCCCGT 131

Db 48 GGGCGGGGGGGATTCTTCCCGCGCCCTACTTCCCGCCGACCCCTT 1

RESULT 2

AZ788565

LOCUS

AZ788565 42 bp DNA linear GSS 16-FEB-2001
DEFINITION 2M0035F14R Mouse 10kb plasmid UUGCIM library Mus musculus genomic
clone UUGC2M0035F14 R, genomic survey sequence.

ACCESSION

AZ788565

VERSION

AZ788565.1

KEYWORDS

GSS.

SOURCE

Mus musculus (house mouse)

ORGANISM

Mus musculus

REFERENCE

1 (bases 1 to 42)

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Rally, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausen, A. and Wright, D. Weiss, R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weiss

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0035 row: F column: 14

Seq primer: CACACGGAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 42.

Location/Qualifiers

1..42

/organism="Mus musculus"

/mol_type="genomic DNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUGC2M0035F14"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/clone_lib="Mouse 10kb plasmid UUGCIM library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 [gi|4732114|gb|AF129072.1], a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to
adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN

Query Match 14.2%; Score 18.8; DB 28; Length 42;
Best Local Similarity 76.7%; Pred. No. 5.9e+05;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 39 GAGTTTCAGCGCTGCATGCACACGTTCTG 68

Db 7 GTGTTGAATCCCTGCATCTACAGTGATG 36

RESULT 3

AU105739

LOCUS

AU105739 50 bp mRNA linear EST 30-AUG-2001
DEFINITION AU105739 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
HRC01265, mRNA sequence.

ACCESSION

AU105739

VERSION

AU105739.1

KEYWORDS

EST.

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

REFERENCE

1 (bases 1 to 50)

AUTHORS

Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

TITLE

Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites

JOURNAL

EMBO Rep. 2 (5), 388-393 (2001)

COMMENT

21270072

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan

Email: ysuzuki@ims.u-tokyo.ac.jp

Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and

Sugano, S. Construction and characterization of a full

length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),

149-156 (1997).

Location/Qualifiers

1..50

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="HRC01265"

/clone_lib="Sugano Homo sapiens cDNA library"

source

14.1%; Score 18.6; DB 9; Length 50;

Best Local Similarity 84.0%; Pred. No. 7.1e+05;

Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 107 TGTGTCTTACCTGCGCTGTCCCGT 131

```

Db      10 TGTGTCCTGTCAGCGCGTGTCCCGT 34
|||||
RESULT 4
AUI05740
LOCUS   AUI05740 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HSI05409, mRNA sequence.
ACCESSION AUI05740
VERSION   AUI05740.1 GI:13555261
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE
AUTHORS   Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
          Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
          Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
          Diverse transcriptional initiation revealed by fine, large-scale
          mapping of mRNA start sites
          EMBO Rep. 2 (5), 388-393 (2001)
JOURNAL   21270072
MEDLINE   11375929
PUBMED
COMMENT   Contact: Yutaka Suzuki
          Department of Virology
          Institute of Medical Science, University of Tokyo
          4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
          Email: yusuzuki@ims.u-tokyo.ac.jp
          Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and
          Sugano, S. Construction and characterization of a full
          length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
          149-156 (1997).

FEATURES             Location/Qualifiers
     source            1..50
                        /organism="Homo sapiens"
                        /mol_type="mRNA"
                        /db_xref="taxon:9606"
                        /clone="W1659"
     ORIGIN
Query Match      14.1%; Score 18.6; DB 9; Length 50;
Best Local Similarity 84.0%; Pred. No. 7.1e+05;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      107 TGTGTCCTACCTGCGCGTGTCCCGT 131
|||||
Db      11 TGTGTCCTGTCAGCGCGTGTCCCGT 35
|||||

RESULT 6
AA886434
LOCUS   AA886434 49 bp mRNA linear EST 30-MAR-1998
DEFINITION OJ52d09.s1 NCI CGAP Kid3 Homo sapiens cDNA clone IMAGE:1501937 3,
          similar to TR:Q04118 Q04118 SALLIVARY PROLINE-RICH GLYCOPROTEIN G1
          PRECURSOR. ; contains MER22.t3 MER22 repetitive element ;, mRNA
          sequence.
ACCESSION AA886434
VERSION   AA886434.1 GI:3001542
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 49)
AUTHORS   NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLES    National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
          Tumor Gene Index
JOURNAL   Unpublished (1997)
COMMENT   Contact: Robert Strausberg, Ph.D.
          Email: cgabbs-r@mail.nih.gov
          Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
          Emmert-Buck, M.D., Ph.D.
          cDNA Library Preparation: M. Bento Soares, Ph.D.
          cDNA Library Arrayed by: Greg Lennon, Ph.D.
          DNA Sequencing by: Washington University Genome Sequencing Center
          Clone distribution: NCI-CGAP clone distribution information can be
          found through the I.M.A.G.E. Consortium/LLNL at:
          www.bio.llnl.gov/bbrp/image/image.html

FEATURES             Location/Qualifiers
     source            1..49
                        /organism="Homo sapiens"
                        /mol_type="mRNA"
                        /db_xref="taxon:9606"
                        /clone="IMAGE:1501937"
                        /lab_host="DH10B"
                        /clone_lib="NCI CGAP Kid3"
                        /note="Organ: kidney; Vector: p7T3D-pac (Pharmacia) with
                        a modified polylinker; Site 1: Not 1; Site 2: Eco RI; 1st
                        strand cDNA was primed with a Not I - oligo(dT) primer,
                        double-stranded cDNA was ligated to Eco RI adaptors
                        (Pharmacia), digested with Not I and cloned into the Not

```

```

Db      10 TGTGTCCTGTCAGCGCGTGTCCCGT 34
|||||
RESULT 4
AUI05740
LOCUS   AUI05740 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION HSI05409, mRNA sequence.
ACCESSION AUI05740
VERSION   AUI05740.1 GI:13555261
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE
AUTHORS   Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
          Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
          Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
          Diverse transcriptional initiation revealed by fine, large-scale
          mapping of mRNA start sites
          EMBO Rep. 2 (5), 388-393 (2001)
JOURNAL   21270072
MEDLINE   11375929
PUBMED
COMMENT   Contact: Yutaka Suzuki
          Department of Virology
          Institute of Medical Science, University of Tokyo
          4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
          Email: yusuzuki@ims.u-tokyo.ac.jp
          Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and
          Sugano, S. Construction and characterization of a full
          length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
          149-156 (1997).

FEATURES             Location/Qualifiers
     source            1..50
                        /organism="Homo sapiens"
                        /mol_type="mRNA"
                        /db_xref="taxon:9606"
                        /clone="HSI05409"
                        /clone_lib="Sugano Homo sapiens cDNA library"
     ORIGIN
Query Match      14.1%; Score 18.6; DB 9; Length 50;
Best Local Similarity 84.0%; Pred. No. 7.1e+05;
Matches 21; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      107 TGTGTCCTACCTGCGCGTGTCCCGT 131
|||||
Db      17 TGTGTCCTGTCAGCGCGTGTCCCGT 41
|||||

RESULT 5
AUI05741
LOCUS   AUI05741 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
DEFINITION W1659, mRNA sequence.
ACCESSION AUI05741
VERSION   AUI05741.1 GI:13555262
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS   Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
          Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
          Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.
          Diverse transcriptional initiation revealed by fine, large-scale
          mapping of mRNA start sites
          EMBO Rep. 2 (5), 388-393 (2001)
JOURNAL   21270072
MEDLINE   11375929
PUBMED

```


I and Eco RI sites of the modified pT73 vector. mRNA source: 2 pooled kidneys. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo.

ORIGIN

Query Match 13.8%; Score 18.2; DB 9; Length 49;
Best Local Similarity 66.7%; Pred. No. 8.8e+05;
Matches 26; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 83 CGGCTGGATGAGCGCTGCTCCCTGTGCTCTACCTGCC 121
|||||

Db 1 CGCGTGGGGGGGGCCCTCTCTCTCTCAACCCGCC 39
|||||

RESULT 7

AU105564/C

LOCUS

DEFINITION AU105564 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
COL00322, mRNA sequence.

ACCESSION AU105564

VERSION AU105564.1

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 50)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

AUTHORS

Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,
Hata, H., Ota, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,
Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

TITLE Diverse transcriptional initiation revealed by fine, large-scale
mapping of mRNA start sites

JOURNAL ENBO Rep. 2 (5), 388-393 (2001)

MEDLINE 21270072

PUBMED 11375929

COMMENT

Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ms.u-tokyo.ac.jp
Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and
Sugano, S. Construction and characterization of a full
length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),
149-156 (1997).

FEATURES

source

1..50
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="COL00322"
/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 13.8%; Score 18.2; DB 9; Length 50;
Best Local Similarity 61.7%; Pred. No. 8.8e+05;
Matches 29; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 84 GGGCTGGATGAGCGGCTGCTCCCTGTGCTCTACCTGCCGTGCCG 130
|||||

Db 48 GGGCTGCTGACGTGTCAGCTCTACTGCTCTCTCTCTCTGTCAG 2
|||||

RESULT 8

AZ432474

LOCUS

DEFINITION AZ432474 50 bp DNA linear GSS 03-OCT-2000
1M217121R Mouse 10kb plasmid UUC1M library Mus musculus genomic
clone UUC1M0217121 R, genomic survey sequence.

ACCESSION AZ432474

VERSION AZ432474.1

KEYWORDS GSS.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 50)
Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T.,
Reilly, M., Rose, R., Stokes, R., Tingey, A., von
Niederhausern, A. and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

Unpublished (2000)

JOURNAL

COMMENT

Contact: Robert B. Weiss

University of Utah Genome Center

University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT

84112, USA

Tel: 801 585 5606

Fax: 801 585 7177

Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00

Plate: 0217 row: I column: 21

Seq primer: CACACAGGAAACAGCTATGACC

Class: plasmid ends

High quality sequence stop: 50.

Location/Qualifiers

1..50

/organism="Mus musculus"

/mol_type="genomic DNA"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUC1M0217121"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"

/clone_lib="Mouse 10kb plasmid UUC1M library"

/note="Vector: PWD42nv; Purified genomic DNA from M.

musculus C57BL/6J (male) was obtained from the Jackson

Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4

polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adapted DNA was purified and size-selected for a 9.5 to

10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative

of pWD42 (gi|4732114|gb|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated

with adaptors complementary to the insert adaptors and
purified. The sheared, adapted mouse DNA was annealed to

adapted vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells

and selected for ampicillin resistance."

ORIGIN

Query Match 13.5%; Score 17.8; DB 28; Length 50;
Best Local Similarity 75.9%; Pred. No. 1.1e+06;
Matches 22; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 34 TCGGTGAGTTTCAGCCCTGATGCACAC 62
|||||

Db 4 TCGCGCGGTGTCATGCGTGATACACAC 32
|||||

RESULT 9

AI941380

LOCUS

DEFINITION

AI941380 49 bp mRNA linear EST 30-NOV-2001
sc12e11.y1 Gm-c1013 Glycine max cDNA clone GENOME SYSTEMS CLONE ID:
Gm-c1013-453 5' similar to SW:CB12 PETHY P13869 CHLOROPHYLL A-B
BINDING PROTEIN OF LHCI TYPE II PRECURSOR ; mRNA sequence.

ACCESSION AI941380

VERSION AI941380.1

KEYWORDS EST.

SOURCE Glycine max (soybean)

```

ORGANISM      Glycine max
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; Core eudicots;
Rosids; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae;
Glycine.
1 (bases 1 to 49)
REFERENCE      1 (bases 1 to 49)
AUTHORS        Shoemaker,R., Keim,F., Vodkin,L., Erpelding,J., Coryell,V.,
                Khanna,A., Bolla,B., Marra,M., Hillier,L., Kucaba,T., Martin,J.,
                Beck,C., Wylie,T., Underwood,K., Steptoe,M., Theising,B., Allen,M.,
                Bowers,Y., Person,B., Swaller,T., Gibbons,M., Page,D., Harvey,N.,
                Schurk,R., Ritter,E., Kohn,S., Shin,T., Jackson,Y., Cardenas,M.,
                McCann,R., Waterston,R. and Wilson,R.
                Public Soybean EST Project
TITLE          Public Soybean EST Project
JOURNAL        Unpublished (1999)
COMMENT        Contact: Shoemaker R/Public Soybean EST Project
                Public Soybean EST Project
                Washington University School of Medicine
                4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
                Tel: 314 286 1800
                Fax: 314 286 1810
                Email: est@watson.wustl.edu
                Trace considered overall poor quality
                Possible reversed clone: similarity on wrong strand This clone is
                available through: Resgen, Invitrogen Corp. 2130 South Memorial
                Parkway Huntsville, AL 35801 For further information call:
                (800)-533-4363 or contact via email: ccu@resgen.com
                Seq primer: -40RP from Gibco
                High quality sequence stop: 1.
                Location/Qualifiers
                1..49
                /organism="Glycine max"
                /mol_type="mRNA"
                /db_xref="taxon:3847"
                /clone="GENOME SYSTEMS CLONE ID: Gm-cl013-453"
                /tissue_type="Whole seedlings, 2-3 week old seedlings,
                greenhouse grown"
                /lab_host="XL10-Gold"
                /clone_lib="Gm-cl013"
                /note="Vector: pBluescript II XR; Site 1: EcoRI; Site 2:
                XhoI; This cDNA library was constructed from mRNA isolated
                from whole seedlings of 2-3 week old greenhouse grown
                plants. The cDNA library was prepared using the Stratagene
                pBluescript II XR cDNA library construction kit.
                Complementary DNA was synthesized from mRNA using a primer
                consisting of a poly (dT) sequence with a XhoI restriction
                site. EcoRI adapters were ligated to the blunt-ended cDNA
                fragments followed by XhoI digestion. The cDNA fragments
                were directionally cloned into the EcoRI-XhoI restriction
                site of the pBluescript vector. The ligated cDNA fragments
                were transformed into XL10-Gold host cells. This library
                was constructed by Dr. Randy Shoemaker and Dr. John
                Erpelding."

FEATURES      source
Query Match      13.3%; Score 17.6; DB 9; Length 49;
Best Local Similarity 65.0%; Pred. No. 1.2e+06;
Matches 26; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY      40 AGTTTCAGCCCTTCATGCACACAGTTCCTCGCGGCTTGCT 79
DB      10 ATTGTGTTCCCTGGCAGCTCACCTCTCGTGGCTTGAT 49

RESULT 10
BX121674/c      44 bp DNA linear GSS 28-JAN-2003
LOCUS      BX121674
DEFINITION      Danio rerio genomic clone DKEY-61M14, genomic survey sequence.
ACCESSION      BX121674
VERSION      BX121674.1 GI:27952599
KEYWORDS      GSS.
SOURCE      Danio rerio (zebrafish)
ORGANISM      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Danio.
1 (bases 1 to 44)
REFERENCE      1 (bases 1 to 44)
AUTHORS        Humphray,S.J., Huckle,E. and Durham,J.L.
TITLE          Direct Submission
JOURNAL        Submitted (27-JAN-2003) The Sanger Institute, Wellcome Trust Genome
                Campus, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
                humphray@sanger.ac.uk Unpublished
                This sequence was generated from the T7 end of BAC 61M14. 61M14 is
                part of the Daniokey BAC Library created by R. Plasterk and N.V.
                Keygene. Further details:
                http://www.sanger.ac.uk/projects/D_rerio/.
                Location/Qualifiers
                1..44
                /organism="Danio rerio"
                /mol_type="genomic DNA"
                /db_xref="taxon:7955"
                /clone="DKEY-61M14"
                /tissue_type="Testis"
                /notes="vector pindigoBAC-536"

ORIGIN
Query Match      13.2%; Score 17.4; DB 29; Length 44;
Best Local Similarity 61.8%; Pred. NO. 1.3e+06;
Matches 21; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY      76 TGCTACTCGGCTGGATGGAGCGCTGTCCTCT 109
DB      41 TGTCGTCGGNNGGTGNGNGTCCTCT 8

RESULT 11
AZ485794      48 bp DNA linear GSS 05-OCT-2000
LOCUS      IM0313K24F Mouse 10kb plasmid UUGC1M library Mus musculus genomic
DEFINITION      clone UUGC1M0313K24 F, genomic survey sequence.
ACCESSION      AZ485794
VERSION      AZ485794.1 GI:10651939
KEYWORDS      GSS.
SOURCE      Mus musculus (house mouse)
ORGANISM      Mus musculus
                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                1 (bases 1 to 48)
REFERENCE      1 (bases 1 to 48)
AUTHORS        Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamil,C.,
                Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T.,
                Reilly,M., Rose,M., Stokes,R., Tingey,A., von
                Niederhausern,A. and Wright,D. Weiss,R.
                Mouse whole genome scaffolding with paired end reads from 10kb
                plasmid inserts
                Unpublished (2000)
                Contact: Robert B. Weiss
                University of Utah
                University of Utah
                Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT
                84112, USA
                Tel: 801 585 5606
                Fax: 801 585 7177
                Email: dunn@genetics.utah.edu
                Insert Length: 10000 Std Error: 0.00
                Plate: 0313 row: K column: 24
                Seq primer: CGTTGTAACACGACGCCACT
                Class: plasmid ends
                High quality sequence stop: 48.
                Location/Qualifiers
                1..48
                /organism="Mus musculus"
                /mol_type="genomic DNA"
                /strain="C57BL/6J"
                /db_xref="taxon:10090"
                /clone="UUGC1M0313K24"
                /sex="Male"
                /lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

```

/clone_lib="Mouse 10kb plasmid UUGCIM library"
/note="Vector: pWD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of pWD42 (g[4732114]gb[AF129072.1]), a copy-number
inducible derivative of plasmid Ri. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

ORIGIN

Query Match 13.2%; Score 17.4; DB 28; Length 48;
Best Local Similarity 62.8%; Pred. No. 1.4e+06;
Matches 27; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Qy 49 CCTGATGACACAGTTTCGCCGCTTCTACTCGGCTGGA 91
|||||
Db 2 CCTGGTGCCCATGATCGCGGGCGCTCGCTGAGTTGGA 44
|||||

RESULT 12

BH624322
LOCUS BH624322 50 bp DNA linear GSS 30-JAN-2002
DEFINITION 1007078A02.2EL_Y2 1007 - RescueMu Grid H Zea mays genomic, genomic
survey sequence.
ACCESSION BH624322
VERSION BH624322.1 GI:15437573
KEYWORDS GSS.
SOURCE Zea mays
ORGANISM Zea mays
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
clade; Panicoideae; Andropogoneae; Zea.
REFERENCE 1 (bases 1 to 50)
AUTHORS Walbot V.
TITLE Maize genomic sequences found using engineered RescueMu transposon
JOURNAL Unpublished (2001)
COMMENT Contact: Walbot V
Department of Biological Sciences
Stanford University
855 California Ave, Palo Alto, CA 94304, USA
Tel: 650 723 2227
Fax: 650 725 8221
Email: walbot@stanford.edu
Possible ligation site of ends cut by 2 different endonucleases.
Reverse complemented post-ligation sequence from source sequence.
Plate: 1007078 row: 30
Class: transposon-tagged.
Location/Qualifiers
1..50
/organism="Zea mays"
/mol_type="genomic DNA"
/cultivar="mixed background W23/A188/B73"
/db_xref="taxon:4577"
/tissue_type="leaf"
/dev_stage="adult"
/lab_host="DH10B"
/clone_lib="1007 - RescueMu Grid H"
/note="Organ: leaf; Vector: RescueMu (engineered from
pBluescript backbone); Site 1: BamHI; Site 2: BglII;
RescueMu is a 4.9 kb, modified maize Mu transposon
designed to allow plasmid rescue from total genomic DNA."

FEATURES

source

Mu elements insert preferentially into transcription
units. For more information on RescueMu, go to the web
site 'www.zmdb.iastate.edu' and follow the links for
'RescueMu.' Grid H was grown at Berkeley in 2001. DNA
was extracted from leaf punches, double digested using
BamHI and BglII, and ligated to form circular plasmids.
DH10B cells were transformed and then screened on LB
plates with ampicillin."

ORIGIN

Query Match 13.2%; Score 17.4; DB 28; Length 50;
Best Local Similarity 62.8%; Pred. No. 1.4e+06;
Matches 27; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
Qy 89 GGATGGAGCCCTGCTCCTGTCCTACCTGCCGCTGTCCTCGT 131
|||||
Db 1 GGCTGGAGCAGTCTGCTTTTGGCCGATGTCGCTCTCTTGT 43
|||||

RESULT 13

H45385/c
LOCUS H45385 46 bp mRNA linear EST 31-JUL-1995
DEFINITION YN99c12.r1 Soares adult brain N2b5HB53r Homo sapiens cDNA clone
IMAGE:176566 5' similar to SP:TFS2_MOUSE P10712 TRANSCRIPTION
FACTOR S-II ; mRNA sequence.

ACCESSION

VERSION H45385.1

KEYWORDS GI:921437

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 46)

AUTHORS Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,

Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,

Parsons,J., Rifkin,L., Rohlfing,T., Soares,M., Tan,F.,

Trevaskis,E., Waterston,R., Williamson,A., Wohlmann,P. and

Wilson,R.

TITLE The WashU-Merck EST Project

JOURNAL Unpublished (1995)

COMMENT Contract: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
High quality sequence starts: 1
High quality sequence stops: 1
Source: IMAGE Consortium, LLNL
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
Seq primer: M13RP1
High quality sequence stop: 1.
Location/Qualifiers
1..46
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:3838762"
/db_xref="taxon:9606"
/clone="IMAGE:176566"
/sex="Male"
/dev_stage="55-year old"
/lab_host="DH10B (ampicillin resistant)"
/clone_lib="Soares adult brain N2b5HB53r"
/note="Organ: brain; Vector: p773D (Pharmacia) with a
modified polylinker; Site 1: Not I; Site 2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer [5',
TGTTACCACTGTAAGTCGAGCGCGCCGCTTTTCTTTT 3'],
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified p773 vector

(Pharmacia). Library went through one round of normalization to a Cot = 53. Library constructed by Bento Soares and M.Fatima Bonaldo. The adult brain RNA was provided by Dr. Donald H. Gilden. Tissue was acquired 17-18 hours after death which occurred in consequence of a ruptured aortic aneurysm. RNA was prepared from a pool of tissues representing the following areas of the brain: frontal, parietal, temporal and occipital cortex from the left and right hemispheres, subcortical white matter, basal ganglia, thalamus, cerebellum, midbrain, pons and medulla."

ORIGIN

Query Match 13.0%; Score 17.2; DB 14; Length 46;
Best Local Similarity 65.8%; Pred. No. 1.5e+06;
Matches 25; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

Qy 5 GCATCACTCCAGGACCTGCTCCAGCACTGCGTGAGT 42
Db 44 GGAGCTTCTCCAGGACTTGATGAGAGACTTGCCAGT 7

RESULT 14

CG805551/c
LOCUS 1118060E02.2ELy1 1118 - RescueMu Grid S Zea mays genomic, genomic survey sequence.
DEFINITION 49 bp DNA linear GSS 10-NOV-2003

ACCESSION CG805551

VERSION CG805551.1 GI:38241970

KEYWORDS

GSS.

SOURCE

Zea mays

Eukaryota;

Spermatophyta; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

clade; Panicoideae; Andropogoneae; Zea.

1 (bases 1 to 49)

Walbot, V.

Maize genomic sequences found using engineered RescueMu transposon

Unpublished (2001)

Contact: Walbot V

Department of Biological Sciences

Stanford University

855 California Ave, Palo Alto, CA 94304, USA

Tel: 650 723 2227

Fax: 650 725 8221

Email: walbot@stanford.edu

Possible ligation site of ends cut by 2 different endonucleases.

Reverse complemented post-ligation sequence from source sequence.

Plate: 1118060 row: 36

Class: transposon-tagged.

Location/Qualifiers

1..49

/organism="Zea mays"

/mol_type="genomic DNA"

/cultivar="mixed background W23/A188/B73"

/db_xref="taxon:4577"

/tissue type="leaf"

/dev stage="adult"

/lab_host="DH108"

/clone_lib="1118 - RescueMu Grid S"

/notes="Organ: leaf; Vector: RescueMu (engineered from pBluescript backbone); Site: 1: BamHI; Site 2: BglII; RescueMu is a 4.9 kb, modified maize Mu transposon designed to allow plasmid rescue from total genomic DNA. Mu elements insert preferentially into transcription units. For more information on RescueMu, go to the web site 'www.zmdb.iastate.edu' and follow the links for 'RescueMu.' Grid S was grown at San Diego in 2002. DNA was extracted from leaf strips, double digested using BamHI and BglII, and ligated to form circular plasmids. DH108 cells were transformed and then screened on LB plates with ampicillin."

ORIGIN

Query Match 13.0%; Score 17.2; DB 29; Length 49;
Best Local Similarity 73.3%; Pred. No. 1.5e+06;
Matches 22; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

Qy 23 TGTGTACCACTGCGTGAGTTTGGAGCCCT 52
Db 34 TGCAGCATGAGTGTGTGTATGCGCAGCACT 5

RESULT 15

AU105249

LOCUS AU105249

DEFINITION AU105249 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone

HRC05540, mRNA sequence.

ACCESSION AU105249

VERSION AU105249.1 GI:13554770

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 50)

AUTHORS Suzuki, Y., Taira, H., Tsunoda, T., Mizushima-Sugano, J., Sese, J.,

Kata, H., Oca, T., Isogai, T., Tanaka, T., Morishita, S., Okubo, K.,

Sakaki, Y., Nakamura, Y., Suyama, A. and Sugano, S.

Diverse transcriptional initiation revealed by fine, large-scale

mapping of mRNA start sites

EMBO Rep. 2 (5), 388-393 (2001)

JOURNAL 21270072

MEDLINE 11375929

COMMENT Contact: Yutaka Suzuki

Department of Virology

Institute of Medical Science, University of Tokyo

4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan

Email: ysuzuki@ims.u-tokyo.ac.jp

Suzuki, Y., Yoshitomo-Nakagawa, K., Maruyama, K., Suyama, A. and

Sugano, S. Construction and characterization of a full

length-enriched and a 5'-end-enriched cDNA library. Gene 200 (1-2),

149-156 (1997).

Location/Qualifiers

1..50

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="HRC05540"

/clone_lib="Sugano Homo sapiens cDNA library"

ORIGIN

Query Match 13.0%; Score 17.2; DB 9; Length 50;

Best Local Similarity 60.9%; Pred. No. 1.6e+06;

Matches 28; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

Qy 40 AGTTTCACCCCTGCATGCACACGTTCTGCGGCGTTCCTACTCGG 85

Db 1 AGTTTCCCGCGCGCGAGCGGCTGCTGCGCGCGCGCTCCCCAG 46

Search completed: May 26, 2004, 09:17:48

Job time : 919.382 secs